

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: P1436041

Luminaire Tested: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1436041  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

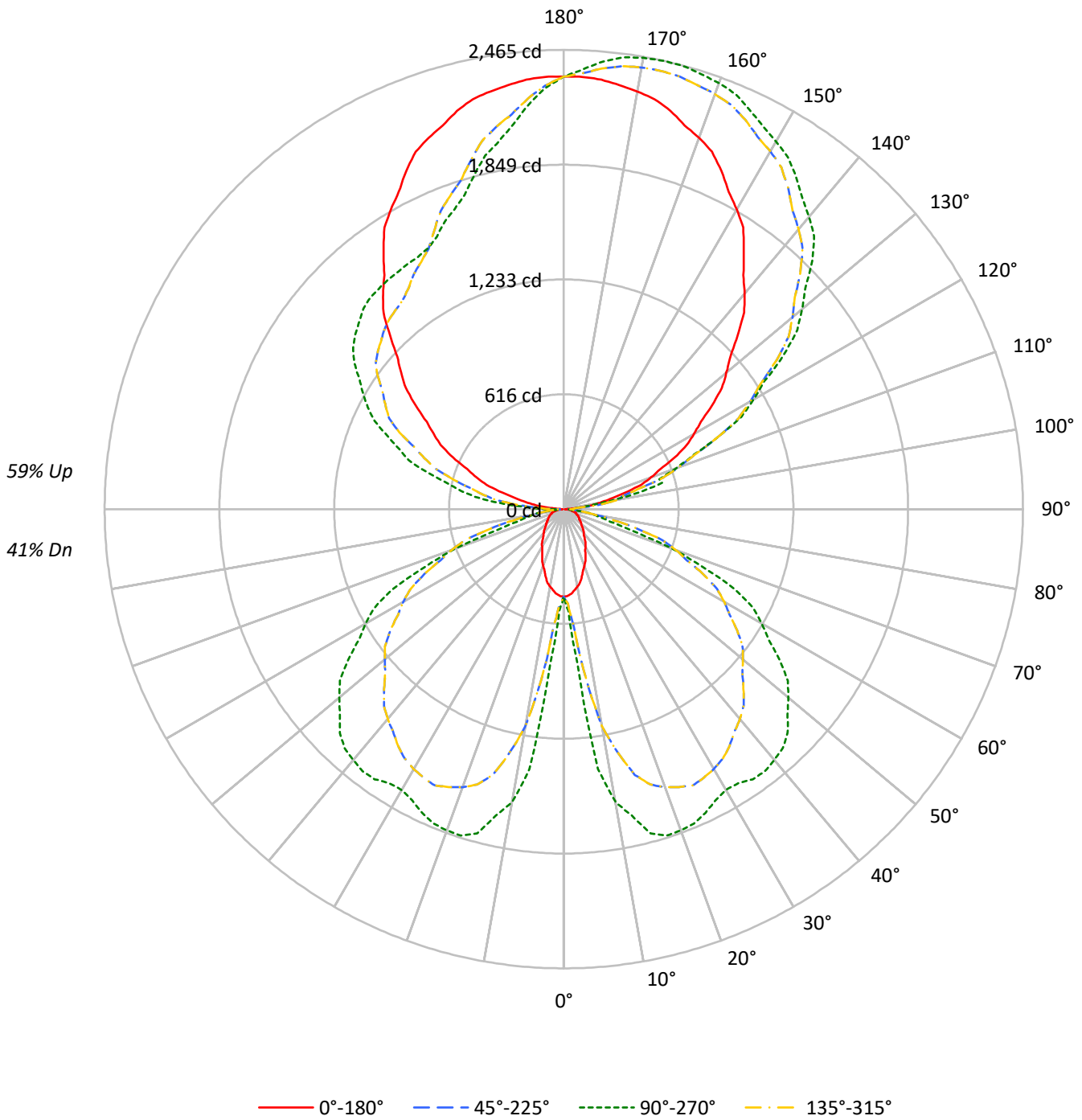
Lumens per Lamp: N/A  
Luminaire Lumens: 11429.3 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.7  
Input Voltage (V): 120  
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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CATALOG NUMBER: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

### 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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	35	33	28
3	79	69	62	56	71	63	57	52	52	47	43	42	38	35	32	30	28	23
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	23	19
5	66	54	46	40	59	49	42	37	41	35	31	33	29	26	25	22	20	17
6	60	48	40	34	55	44	37	32	36	31	27	29	25	22	23	20	17	14
7	56	43	35	30	50	40	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13	11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	7592	7592	7592	7592
5°	7400	13446	7400	13446
10°	6930	26163	6930	26163
15°	6272	30112	6272	30112
20°	5553	31535	5553	31535
25°	4913	32054	4913	32054
30°	4340	32449	4340	32449
35°	3877	34885	3877	34885
40°	3526	37065	3526	37065
45°	3251	38812	3251	38812
50°	3067	39516	3067	39516
55°	2989	39831	2989	39831
60°	3064	39634	3064	39634
65°	3194	38513	3194	38513
70°	3309	29131	3309	29131
75°	3668	16076	3668	16076
80°	3784	14923	3784	14923
85°	3761	6280	3761	6280

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 40191 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	0.7
10°-20°	359.4	3.1
20°-30°	632.5	5.5
30°-40°	818.7	7.2
40°-50°	902.9	7.9
50°-60°	842.7	7.4
60°-70°	651.1	5.7
70°-80°	300.1	2.6
80°-90°	67.0	0.6
90°-100°	184.7	1.6
100°-110°	538.6	4.7
110°-120°	879.0	7.7
120°-130°	1115.4	9.8
130°-140°	1193.5	10.4
140°-150°	1114.5	9.8
150°-160°	917.1	8.0
160°-170°	615.0	5.4
170°-180°	218.4	1.9
0°-30°	1070.6	9.4
0°-40°	1889.4	16.5
0°-60°	3635.0	31.8
0°-90°	4653.1	40.7
90°-120°	1602.3	14.0
90°-150°	5025.7	44.0
90°-180°	6776.0	59.3
0°-180°	11429.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	470	470	470	470	470	
5°	457	830	457	830	457	42
15°	375	1802	375	1802	375	105
25°	276	1799	276	1799	276	127
35°	197	1770	197	1770	197	124
45°	142	1700	142	1700	142	110
55°	106	1415	106	1415	106	96
65°	84	1008	84	1008	84	82
75°	59	258	59	258	59	60
85°	20	34	20	34	20	21
90°	7	52	7	101	7	7
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	466.5	475.4	484.2	493.7	503.3	513.8	525.0	534.7	539.5	544.3	539.5
5°	456.6	486.7	516.9	560.6	608.8	663.5	724.8	777.3	803.4	829.6	803.4
7.5°	439.0	500.2	561.5	691.4	844.1	1002.6	1167.0	1303.3	1355.5	1407.8	1355.5
10°	422.7	508.1	593.5	813.7	1079.0	1282.9	1425.5	1539.6	1567.7	1595.8	1567.7
12.5°	404.6	520.5	636.5	908.4	1232.3	1444.2	1544.3	1626.6	1655.5	1684.4	1655.5
15°	375.2	541.0	706.7	1014.2	1368.8	1586.8	1668.2	1737.2	1769.4	1801.5	1769.4
17.5°	344.9	565.5	786.2	1099.7	1444.3	1656.9	1737.5	1802.3	1819.7	1837.2	1819.7
20°	323.2	582.4	841.6	1155.8	1488.3	1689.3	1758.6	1813.3	1824.4	1835.4	1824.4
22.5°	303.3	593.1	882.8	1197.4	1520.3	1707.9	1760.4	1802.7	1814.5	1826.4	1814.5
25°	275.8	602.3	928.8	1242.5	1551.9	1723.2	1756.3	1783.2	1791.2	1799.3	1791.2
27.5°	249.1	594.1	939.1	1248.8	1546.7	1706.6	1728.3	1746.5	1754.3	1762.2	1754.3
30°	232.8	583.4	934.0	1240.9	1533.3	1687.5	1703.6	1718.4	1729.4	1740.5	1729.4
32.5°	218.4	570.6	922.8	1225.9	1512.6	1663.6	1678.9	1696.3	1720.2	1744.1	1720.2
35°	196.7	543.2	889.8	1189.7	1474.0	1628.2	1652.3	1681.5	1725.7	1769.9	1725.7
37.5°	178.1	508.2	838.3	1135.2	1420.9	1588.9	1639.4	1687.8	1730.4	1773.0	1730.4
40°	167.3	483.7	800.2	1094.8	1382.1	1559.4	1626.7	1686.2	1722.4	1758.6	1722.4
42.5°	156.4	456.0	755.6	1047.8	1337.5	1521.6	1600.2	1668.2	1704.3	1740.5	1704.3
45°	142.4	411.6	680.9	970.5	1266.8	1461.2	1553.6	1631.5	1665.6	1699.8	1665.6
47.5°	129.3	363.2	597.0	887.9	1197.7	1401.6	1499.7	1579.4	1604.4	1629.3	1604.4
50°	122.1	331.0	540.0	831.8	1151.3	1359.2	1455.7	1533.0	1553.1	1573.2	1553.1
52.5°	114.8	299.7	484.5	777.0	1105.3	1314.8	1405.6	1478.4	1496.9	1515.4	1496.9
55°	106.2	256.9	407.6	696.9	1032.5	1239.9	1319.3	1382.8	1398.9	1415.0	1398.9
57.5°	98.6	220.1	341.7	621.9	955.0	1155.5	1223.2	1277.2	1290.3	1303.3	1290.3
60°	94.9	200.4	305.9	574.9	898.4	1090.8	1152.0	1201.3	1214.3	1227.4	1214.3
62.5°	89.5	181.3	273.2	527.9	836.9	1019.6	1076.1	1121.5	1133.8	1146.0	1133.8
65°	83.6	158.0	232.3	461.9	743.2	907.4	954.6	992.1	1000.1	1008.1	1000.1
67.5°	75.5	138.6	201.7	401.4	646.8	784.1	813.4	831.7	816.6	801.5	816.6
70°	70.1	128.3	186.6	364.7	582.7	696.7	706.7	703.5	660.3	617.1	660.3
72.5°	66.5	118.3	170.1	324.3	512.6	595.6	573.5	536.5	454.7	373.0	454.7
75°	58.8	101.0	143.2	259.2	399.8	421.9	325.5	253.7	255.7	257.7	255.7
77.5°	47.9	79.5	111.0	182.3	266.9	283.7	232.7	194.8	196.7	198.5	196.7
80°	40.7	65.8	90.9	119.0	148.2	161.7	159.7	158.5	159.5	160.5	159.5
82.5°	33.5	52.1	70.8	87.7	104.0	113.1	115.1	116.3	114.9	113.5	114.9
85°	20.3	31.4	42.4	49.0	54.0	52.5	44.5	37.9	35.9	33.9	35.9
87.5°	8.6	14.5	20.9	21.4	19.6	18.4	18.4	18.9	19.4	19.4	19.4
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	561.2	585.1	648.9	721.5	749.2	763.3	753.0	747.8	743.1	746.9	743.1
115°	656.4	691.5	775.9	850.9	907.2	914.2	911.9	911.9	909.5	909.5	909.5
117.5°	744.5	800.8	895.5	982.7	1047.9	1066.6	1076.0	1073.2	1070.4	1075.0	1070.4
120°	806.4	872.0	979.9	1078.3	1141.6	1169.7	1179.1	1174.4	1179.1	1174.4	1179.1
122.5°	872.0	952.7	1058.6	1160.8	1235.4	1267.3	1278.5	1279.5	1280.4	1277.6	1280.4
125°	970.5	1068.9	1193.2	1298.7	1376.0	1413.5	1422.9	1425.3	1430.0	1441.7	1430.0
127.5°	1069.9	1181.5	1317.9	1419.6	1498.9	1544.3	1558.9	1564.0	1573.9	1579.0	1573.9
130°	1139.3	1265.9	1404.2	1500.3	1577.6	1626.9	1652.7	1659.7	1671.4	1669.1	1671.4
132.5°	1212.4	1344.6	1484.8	1584.7	1656.4	1709.4	1731.4	1751.6	1755.8	1759.1	1755.8
135°	1319.8	1462.8	1603.4	1701.9	1769.9	1821.4	1849.6	1868.3	1880.0	1887.1	1880.0
137.5°	1432.8	1583.7	1718.8	1806.4	1874.9	1919.4	1951.3	1971.0	1983.2	1988.8	1983.2
140°	1509.7	1655.0	1786.3	1877.7	1938.6	1983.2	2011.3	2034.8	2048.8	2048.8	2048.8
142.5°	1582.8	1726.3	1853.8	1945.2	1998.7	2039.4	2069.4	2087.3	2103.2	2103.2	2103.2
145°	1685.5	1828.5	1945.7	2037.1	2081.6	2119.1	2152.0	2166.0	2175.4	2175.4	2175.4
147.5°	1792.8	1919.4	2026.3	2114.0	2151.5	2195.6	2221.3	2232.6	2244.3	2239.2	2244.3
150°	1856.6	1973.8	2076.9	2159.0	2196.5	2238.7	2264.5	2273.9	2285.6	2278.5	2285.6
152.5°	1918.5	2030.1	2123.8	2200.3	2232.1	2274.3	2303.9	2313.2	2321.2	2316.1	2321.2
155°	2001.9	2100.4	2187.1	2257.5	2285.6	2325.4	2353.6	2365.3	2374.7	2362.9	2374.7
157.5°	2076.5	2161.3	2236.8	2301.5	2331.5	2365.8	2392.0	2406.5	2415.9	2410.8	2415.9
160°	2121.5	2198.8	2266.8	2327.8	2355.9	2386.4	2414.5	2430.9	2440.3	2433.3	2440.3
162.5°	2159.0	2228.9	2293.1	2348.4	2372.8	2399.5	2433.3	2447.8	2457.2	2448.3	2457.2
165°	2212.9	2269.2	2325.4	2372.3	2393.4	2414.5	2449.7	2466.1	2473.1	2463.7	2473.1
167.5°	2253.7	2296.8	2342.3	2382.6	2398.1	2418.7	2453.9	2467.5	2476.4	2464.7	2476.4
170°	2276.2	2313.7	2353.6	2386.4	2398.1	2416.9	2452.0	2463.7	2470.8	2459.1	2470.8
172.5°	2295.0	2323.1	2355.4	2384.5	2390.6	2405.6	2438.9	2450.6	2455.8	2445.9	2455.8
175°	2313.7	2330.1	2353.6	2372.3	2370.0	2379.3	2407.5	2416.9	2426.2	2412.2	2426.2
177.5°	2322.6	2330.1	2337.6	2348.9	2341.4	2341.4	2362.0	2367.6	2369.5	2362.0	2369.5
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	534.7	525.0	513.8	503.3	493.7	484.2	475.4	466.5	475.4	484.2	493.7
5°	777.3	724.8	663.5	608.8	560.6	516.9	486.7	456.6	486.7	516.9	560.6
7.5°	1303.3	1167.0	1002.6	844.1	691.4	561.5	500.2	439.0	500.2	561.5	691.4
10°	1539.6	1425.5	1282.9	1079.0	813.7	593.5	508.1	422.7	508.1	593.5	813.7
12.5°	1626.6	1544.3	1444.2	1232.3	908.4	636.5	520.5	404.6	520.5	636.5	908.4
15°	1737.2	1668.2	1586.8	1368.8	1014.2	706.7	541.0	375.2	541.0	706.7	1014.2
17.5°	1802.3	1737.5	1656.9	1444.3	1099.7	786.2	565.5	344.9	565.5	786.2	1099.7
20°	1813.3	1758.6	1689.3	1488.3	1155.8	841.6	582.4	323.2	582.4	841.6	1155.8
22.5°	1802.7	1760.4	1707.9	1520.3	1197.4	882.8	593.1	303.3	593.1	882.8	1197.4
25°	1783.2	1756.3	1723.2	1551.9	1242.5	928.8	602.3	275.8	602.3	928.8	1242.5
27.5°	1746.5	1728.3	1706.6	1546.7	1248.8	939.1	594.1	249.1	594.1	939.1	1248.8
30°	1718.4	1703.6	1687.5	1533.3	1240.9	934.0	583.4	232.8	583.4	934.0	1240.9
32.5°	1696.3	1678.9	1663.6	1512.6	1225.9	922.8	570.6	218.4	570.6	922.8	1225.9
35°	1681.5	1652.3	1628.2	1474.0	1189.7	889.8	543.2	196.7	543.2	889.8	1189.7
37.5°	1687.8	1639.4	1588.9	1420.9	1135.2	838.3	508.2	178.1	508.2	838.3	1135.2
40°	1686.2	1626.7	1559.4	1382.1	1094.8	800.2	483.7	167.3	483.7	800.2	1094.8
42.5°	1668.2	1600.2	1521.6	1337.5	1047.8	755.6	456.0	156.4	456.0	755.6	1047.8
45°	1631.5	1553.6	1461.2	1266.8	970.5	680.9	411.6	142.4	411.6	680.9	970.5
47.5°	1579.4	1499.7	1401.6	1197.7	887.9	597.0	363.2	129.3	363.2	597.0	887.9
50°	1533.0	1455.7	1359.2	1151.3	831.8	540.0	331.0	122.1	331.0	540.0	831.8
52.5°	1478.4	1405.6	1314.8	1105.3	777.0	484.5	299.7	114.8	299.7	484.5	777.0
55°	1382.8	1319.3	1239.9	1032.5	696.9	407.6	256.9	106.2	256.9	407.6	696.9
57.5°	1277.2	1223.2	1155.5	955.0	621.9	341.7	220.1	98.6	220.1	341.7	621.9
60°	1201.3	1152.0	1090.8	898.4	574.9	305.9	200.4	94.9	200.4	305.9	574.9
62.5°	1121.5	1076.1	1019.6	836.9	527.9	273.2	181.3	89.5	181.3	273.2	527.9
65°	992.1	954.6	907.4	743.2	461.9	232.3	158.0	83.6	158.0	232.3	461.9
67.5°	831.7	813.4	784.1	646.8	401.4	201.7	138.6	75.5	138.6	201.7	401.4
70°	703.5	706.7	696.7	582.7	364.7	186.6	128.3	70.1	128.3	186.6	364.7
72.5°	536.5	573.5	595.6	512.6	324.3	170.1	118.3	66.5	118.3	170.1	324.3
75°	253.7	325.5	421.9	399.8	259.2	143.2	101.0	58.8	101.0	143.2	259.2
77.5°	194.8	232.7	283.7	266.9	182.3	111.0	79.5	47.9	79.5	111.0	182.3
80°	158.5	159.7	161.7	148.2	119.0	90.9	65.8	40.7	65.8	90.9	119.0
82.5°	116.3	115.1	113.1	104.0	87.7	70.8	52.1	33.5	52.1	70.8	87.7
85°	37.9	44.5	52.5	54.0	49.0	42.4	31.4	20.3	31.4	42.4	49.0
87.5°	18.9	18.4	18.4	19.6	21.4	20.9	14.5	8.6	14.5	20.4	22.3
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1436041

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	747.8	753.0	763.3	749.2	721.5	648.9	585.1	561.2	610.4	692.0	766.5
115°	911.9	911.9	914.2	907.2	850.9	775.9	691.5	656.4	698.6	773.6	855.6
117.5°	1073.2	1076.0	1066.6	1047.9	982.7	895.5	800.8	744.5	777.8	857.0	941.4
120°	1174.4	1179.1	1169.7	1141.6	1078.3	979.9	872.0	806.4	832.2	909.5	993.9
122.5°	1279.5	1278.5	1267.3	1235.4	1160.8	1058.6	952.7	872.0	882.8	954.6	1037.1
125°	1425.3	1422.9	1413.5	1376.0	1298.7	1193.2	1068.9	970.5	956.4	1017.4	1101.8
127.5°	1564.0	1558.9	1544.3	1498.9	1419.6	1317.9	1181.5	1069.9	1038.5	1076.9	1154.3
130°	1659.7	1652.7	1626.9	1577.6	1500.3	1404.2	1265.9	1139.3	1094.7	1118.2	1186.2
132.5°	1751.6	1731.4	1709.4	1656.4	1584.7	1484.8	1344.6	1212.4	1151.0	1161.3	1214.3
135°	1868.3	1849.6	1821.4	1769.9	1701.9	1603.4	1462.8	1319.8	1235.4	1226.0	1256.5
137.5°	1971.0	1951.3	1919.4	1874.9	1806.4	1718.8	1583.7	1432.8	1326.3	1294.9	1306.6
140°	2034.8	2011.3	1983.2	1938.6	1877.7	1786.3	1655.0	1509.7	1390.1	1345.6	1338.5
142.5°	2087.3	2069.4	2039.4	1998.7	1945.2	1853.8	1726.3	1582.8	1455.7	1398.1	1381.7
145°	2166.0	2152.0	2119.1	2081.6	2037.1	1945.7	1828.5	1685.5	1558.9	1483.9	1448.7
147.5°	2232.6	2221.3	2195.6	2151.5	2114.0	2026.3	1919.4	1792.8	1663.0	1570.1	1524.7
150°	2273.9	2264.5	2238.7	2196.5	2159.0	2076.9	1973.8	1856.6	1732.4	1633.9	1575.3
152.5°	2313.2	2303.9	2274.3	2232.1	2200.3	2123.8	2030.1	1918.5	1792.4	1693.9	1633.4
155°	2365.3	2353.6	2325.4	2285.6	2257.5	2187.1	2100.4	2001.9	1894.1	1791.0	1723.0
157.5°	2406.5	2392.0	2365.8	2331.5	2301.5	2236.8	2161.3	2076.5	1982.2	1883.8	1814.4
160°	2430.9	2414.5	2386.4	2355.9	2327.8	2266.8	2198.8	2121.5	2034.8	1945.7	1870.7
162.5°	2447.8	2433.3	2399.5	2372.8	2348.4	2293.1	2228.9	2159.0	2081.6	2003.8	1934.4
165°	2466.1	2449.7	2414.5	2393.4	2372.3	2325.4	2269.2	2212.9	2147.3	2084.0	2027.7
167.5°	2467.5	2453.9	2418.7	2398.1	2382.6	2342.3	2296.8	2253.7	2202.6	2152.9	2106.0
170°	2463.7	2452.0	2416.9	2398.1	2386.4	2353.6	2313.7	2276.2	2236.4	2194.2	2156.7
172.5°	2450.6	2438.9	2405.6	2390.6	2384.5	2355.4	2323.1	2295.0	2260.7	2229.8	2199.8
175°	2416.9	2407.5	2379.3	2370.0	2372.3	2353.6	2330.1	2313.7	2292.6	2273.9	2257.5
177.5°	2367.6	2362.0	2341.4	2341.4	2348.9	2337.6	2330.1	2322.6	2313.2	2307.6	2302.0
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1436041

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	503.3	513.8	525.0	534.7	539.5	544.3	539.5	534.7	525.0	513.8	503.3
5°	608.8	663.5	724.8	777.3	803.4	829.6	803.4	777.3	724.8	663.5	608.8
7.5°	844.1	1002.6	1167.0	1303.3	1355.5	1407.8	1355.5	1303.3	1167.0	1002.6	844.1
10°	1079.0	1282.9	1425.5	1539.6	1567.7	1595.8	1567.7	1539.6	1425.5	1282.9	1079.0
12.5°	1232.3	1444.2	1544.3	1626.6	1655.5	1684.4	1655.5	1626.6	1544.3	1444.2	1232.3
15°	1368.8	1586.8	1668.2	1737.2	1769.4	1801.5	1769.4	1737.2	1668.2	1586.8	1368.8
17.5°	1444.3	1656.9	1737.5	1802.3	1819.7	1837.2	1819.7	1802.3	1737.5	1656.9	1444.3
20°	1488.3	1689.3	1758.6	1813.3	1824.4	1835.4	1824.4	1813.3	1758.6	1689.3	1488.3
22.5°	1520.3	1707.9	1760.4	1802.7	1814.5	1826.4	1814.5	1802.7	1760.4	1707.9	1520.3
25°	1551.9	1723.2	1756.3	1783.2	1791.2	1799.3	1791.2	1783.2	1756.3	1723.2	1551.9
27.5°	1546.7	1706.6	1728.3	1746.5	1754.3	1762.2	1754.3	1746.5	1728.3	1706.6	1546.7
30°	1533.3	1687.5	1703.6	1718.4	1729.4	1740.5	1729.4	1718.4	1703.6	1687.5	1533.3
32.5°	1512.6	1663.6	1678.9	1696.3	1720.2	1744.1	1720.2	1696.3	1678.9	1663.6	1512.6
35°	1474.0	1628.2	1652.3	1681.5	1725.7	1769.9	1725.7	1681.5	1652.3	1628.2	1474.0
37.5°	1420.9	1588.9	1639.4	1687.8	1730.4	1773.0	1730.4	1687.8	1639.4	1588.9	1420.9
40°	1382.1	1559.4	1626.7	1686.2	1722.4	1758.6	1722.4	1686.2	1626.7	1559.4	1382.1
42.5°	1337.5	1521.6	1600.2	1668.2	1704.3	1740.5	1704.3	1668.2	1600.2	1521.6	1337.5
45°	1266.8	1461.2	1553.6	1631.5	1665.6	1699.8	1665.6	1631.5	1553.6	1461.2	1266.8
47.5°	1197.7	1401.6	1499.7	1579.4	1604.4	1629.3	1604.4	1579.4	1499.7	1401.6	1197.7
50°	1151.3	1359.2	1455.7	1533.0	1553.1	1573.2	1553.1	1533.0	1455.7	1359.2	1151.3
52.5°	1105.3	1314.8	1405.6	1478.4	1496.9	1515.4	1496.9	1478.4	1405.6	1314.8	1105.3
55°	1032.5	1239.9	1319.3	1382.8	1398.9	1415.0	1398.9	1382.8	1319.3	1239.9	1032.5
57.5°	955.0	1155.5	1223.2	1277.2	1290.3	1303.3	1290.3	1277.2	1223.2	1155.5	955.0
60°	898.4	1090.8	1152.0	1201.3	1214.3	1227.4	1214.3	1201.3	1152.0	1090.8	898.4
62.5°	836.9	1019.6	1076.1	1121.5	1133.8	1146.0	1133.8	1121.5	1076.1	1019.6	836.9
65°	743.2	907.4	954.6	992.1	1000.1	1008.1	1000.1	992.1	954.6	907.4	743.2
67.5°	646.8	784.1	813.4	831.7	816.6	801.5	816.6	831.7	813.4	784.1	646.8
70°	582.7	696.7	706.7	703.5	660.3	617.1	660.3	703.5	706.7	696.7	582.7
72.5°	512.6	595.6	573.5	536.5	454.7	373.0	454.7	536.5	573.5	595.6	512.6
75°	399.8	421.9	325.5	253.7	255.7	257.7	255.7	253.7	325.5	421.9	399.8
77.5°	266.9	283.7	232.7	194.8	196.7	198.5	196.7	194.8	232.7	283.7	266.9
80°	148.2	161.7	159.7	158.5	159.5	160.5	159.5	158.5	159.7	161.7	148.2
82.5°	104.0	113.1	115.1	116.3	114.9	113.5	114.9	116.3	115.1	113.1	104.0
85°	54.0	52.5	44.5	37.9	35.9	33.9	35.9	37.9	44.5	52.5	54.0
87.5°	21.4	23.1	26.4	28.3	30.1	29.2	30.1	28.3	26.4	23.1	21.4
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1436041

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	840.6	895.5	944.7	979.9	1009.4	1022.5	1009.4	979.9	944.7	895.5	840.6
115°	937.7	1010.3	1054.9	1087.7	1108.8	1120.5	1108.8	1087.7	1054.9	1010.3	937.7
117.5°	1018.3	1094.3	1143.0	1168.3	1178.2	1186.6	1178.2	1168.3	1143.0	1094.3	1018.3
120°	1068.9	1139.3	1195.5	1228.4	1240.1	1244.8	1240.1	1228.4	1195.5	1139.3	1068.9
122.5°	1115.8	1182.4	1236.8	1277.1	1296.3	1301.0	1296.3	1277.1	1236.8	1182.4	1115.8
125°	1181.5	1244.8	1301.0	1340.9	1362.0	1373.7	1362.0	1340.9	1301.0	1244.8	1181.5
127.5°	1238.7	1307.1	1358.7	1394.8	1415.4	1424.8	1415.4	1394.8	1358.7	1307.1	1238.7
130°	1270.5	1340.9	1392.4	1432.3	1451.1	1460.4	1451.1	1432.3	1392.4	1340.9	1270.5
132.5°	1294.9	1369.0	1422.5	1458.6	1479.2	1488.6	1479.2	1458.6	1422.5	1369.0	1294.9
135°	1324.5	1401.8	1458.1	1493.2	1512.0	1521.4	1512.0	1493.2	1458.1	1401.8	1324.5
137.5°	1350.3	1420.6	1479.2	1516.2	1533.1	1539.2	1533.1	1516.2	1479.2	1420.6	1350.3
140°	1369.0	1430.0	1488.6	1523.7	1542.5	1544.8	1542.5	1523.7	1488.6	1430.0	1369.0
142.5°	1393.4	1441.2	1492.3	1527.5	1546.2	1550.4	1546.2	1527.5	1492.3	1441.2	1393.4
145°	1437.0	1465.1	1500.3	1533.1	1549.5	1554.2	1549.5	1533.1	1500.3	1465.1	1437.0
147.5°	1491.8	1500.7	1519.0	1540.6	1556.5	1559.8	1556.5	1540.6	1519.0	1500.7	1491.8
150°	1533.1	1530.8	1537.8	1551.9	1565.9	1563.6	1565.9	1551.9	1537.8	1530.8	1533.1
152.5°	1580.0	1566.4	1565.9	1572.5	1579.0	1578.6	1579.0	1572.5	1565.9	1566.4	1580.0
155°	1659.7	1633.9	1619.8	1615.1	1615.1	1612.8	1615.1	1615.1	1619.8	1633.9	1659.7
157.5°	1747.4	1711.3	1690.2	1678.9	1675.6	1670.5	1675.6	1678.9	1690.2	1711.3	1747.4
160°	1807.4	1767.5	1746.4	1727.7	1720.6	1713.6	1720.6	1727.7	1746.4	1767.5	1807.4
162.5°	1863.6	1825.7	1802.7	1785.8	1778.8	1768.0	1778.8	1785.8	1802.7	1825.7	1863.6
165°	1955.1	1915.2	1889.4	1875.3	1866.0	1856.6	1866.0	1875.3	1889.4	1915.2	1955.1
167.5°	2046.5	2002.9	1986.0	1970.1	1961.1	1944.3	1961.1	1970.1	1986.0	2002.9	2046.5
170°	2102.7	2062.9	2053.5	2039.4	2023.0	2004.3	2023.0	2039.4	2053.5	2062.9	2102.7
172.5°	2151.5	2124.8	2115.4	2101.3	2096.2	2081.2	2096.2	2101.3	2115.4	2124.8	2151.5
175°	2222.3	2201.2	2201.2	2198.8	2191.8	2177.7	2191.8	2198.8	2201.2	2201.2	2222.3
177.5°	2281.4	2270.1	2277.6	2277.6	2275.7	2262.6	2275.7	2277.6	2277.6	2270.1	2281.4
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1436041

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	470.2	470.2	470.2	470.2
2.5°	493.7	484.2	475.4	466.5
5°	560.6	516.9	486.7	456.6
7.5°	691.4	561.5	500.2	439.0
10°	813.7	593.5	508.1	422.7
12.5°	908.4	636.5	520.5	404.6
15°	1014.2	706.7	541.0	375.2
17.5°	1099.7	786.2	565.5	344.9
20°	1155.8	841.6	582.4	323.2
22.5°	1197.4	882.8	593.1	303.3
25°	1242.5	928.8	602.3	275.8
27.5°	1248.8	939.1	594.1	249.1
30°	1240.9	934.0	583.4	232.8
32.5°	1225.9	922.8	570.6	218.4
35°	1189.7	889.8	543.2	196.7
37.5°	1135.2	838.3	508.2	178.1
40°	1094.8	800.2	483.7	167.3
42.5°	1047.8	755.6	456.0	156.4
45°	970.5	680.9	411.6	142.4
47.5°	887.9	597.0	363.2	129.3
50°	831.8	540.0	331.0	122.1
52.5°	777.0	484.5	299.7	114.8
55°	696.9	407.6	256.9	106.2
57.5°	621.9	341.7	220.1	98.6
60°	574.9	305.9	200.4	94.9
62.5°	527.9	273.2	181.3	89.5
65°	461.9	232.3	158.0	83.6
67.5°	401.4	201.7	138.6	75.5
70°	364.7	186.6	128.3	70.1
72.5°	324.3	170.1	118.3	66.5
75°	259.2	143.2	101.0	58.8
77.5°	182.3	111.0	79.5	47.9
80°	119.0	90.9	65.8	40.7
82.5°	87.7	70.8	52.1	33.5
85°	49.0	42.4	31.4	20.3
87.5°	22.3	20.4	14.5	8.6
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1436041

CATALOG NUMBER: SQ2W-FB-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	766.5	692.0	610.4	561.2
115°	855.6	773.6	698.6	656.4
117.5°	941.4	857.0	777.8	744.5
120°	993.9	909.5	832.2	806.4
122.5°	1037.1	954.6	882.8	872.0
125°	1101.8	1017.4	956.4	970.5
127.5°	1154.3	1076.9	1038.5	1069.9
130°	1186.2	1118.2	1094.7	1139.3
132.5°	1214.3	1161.3	1151.0	1212.4
135°	1256.5	1226.0	1235.4	1319.8
137.5°	1306.6	1294.9	1326.3	1432.8
140°	1338.5	1345.6	1390.1	1509.7
142.5°	1381.7	1398.1	1455.7	1582.8
145°	1448.7	1483.9	1558.9	1685.5
147.5°	1524.7	1570.1	1663.0	1792.8
150°	1575.3	1633.9	1732.4	1856.6
152.5°	1633.4	1693.9	1792.4	1918.5
155°	1723.0	1791.0	1894.1	2001.9
157.5°	1814.4	1883.8	1982.2	2076.5
160°	1870.7	1945.7	2034.8	2121.5
162.5°	1934.4	2003.8	2081.6	2159.0
165°	2027.7	2084.0	2147.3	2212.9
167.5°	2106.0	2152.9	2202.6	2253.7
170°	2156.7	2194.2	2236.4	2276.2
172.5°	2199.8	2229.8	2260.7	2295.0
175°	2257.5	2273.9	2292.6	2313.7
177.5°	2302.0	2307.6	2313.2	2322.6
180°	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1436041  
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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	12.30	13.10	13.33	14.14	15.54	21.89	22.70	22.92	23.74	25.13
	3H	13.23	13.95	14.27	15.00	16.42	23.50	24.22	24.53	25.27	26.68
	4H	13.63	14.31	14.68	15.36	16.78	23.67	24.35	24.72	25.40	26.83
	6H	13.88	14.51	14.94	15.56	17.00	23.74	24.37	24.80	25.43	26.86
	8H	13.97	14.57	15.04	15.64	17.07	23.76	24.36	24.82	25.43	26.86
	12H	14.02	14.59	15.09	15.65	17.10	23.73	24.30	24.81	25.37	26.82
4H	2H	17.01	17.69	18.07	18.74	20.17	22.25	22.94	23.31	23.99	25.41
	3H	18.13	18.70	19.20	19.78	21.22	24.13	24.70	25.20	25.78	27.22
	4H	18.41	18.93	19.48	20.00	21.46	24.35	24.88	25.43	25.94	27.40
	6H	18.54	18.99	19.63	20.08	21.54	24.48	24.93	25.56	26.02	27.47
	8H	18.58	19.00	19.66	20.08	21.55	24.53	24.94	25.61	26.03	27.50
	12H	18.58	18.96	19.68	20.06	21.53	24.50	24.88	25.60	25.98	27.45
8H	4H	19.60	20.02	20.68	21.10	22.57	24.44	24.86	25.52	25.94	27.41
	6H	19.86	20.20	20.96	21.33	22.79	24.63	24.98	25.74	26.11	27.57
	8H	19.95	20.26	21.06	21.36	22.85	24.72	25.03	25.84	26.13	27.62
	12H	19.99	20.26	21.11	21.36	22.89	24.73	24.99	25.84	26.10	27.62
12H	4H	19.62	20.00	20.72	21.10	22.57	24.39	24.77	25.49	25.87	27.34
	6H	19.96	20.26	21.07	21.37	22.86	24.62	24.92	25.73	26.03	27.51
	8H	20.10	20.36	21.21	21.47	22.99	24.71	24.98	25.83	26.08	27.61