

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: P1428569

Luminaire Tested: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428569  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

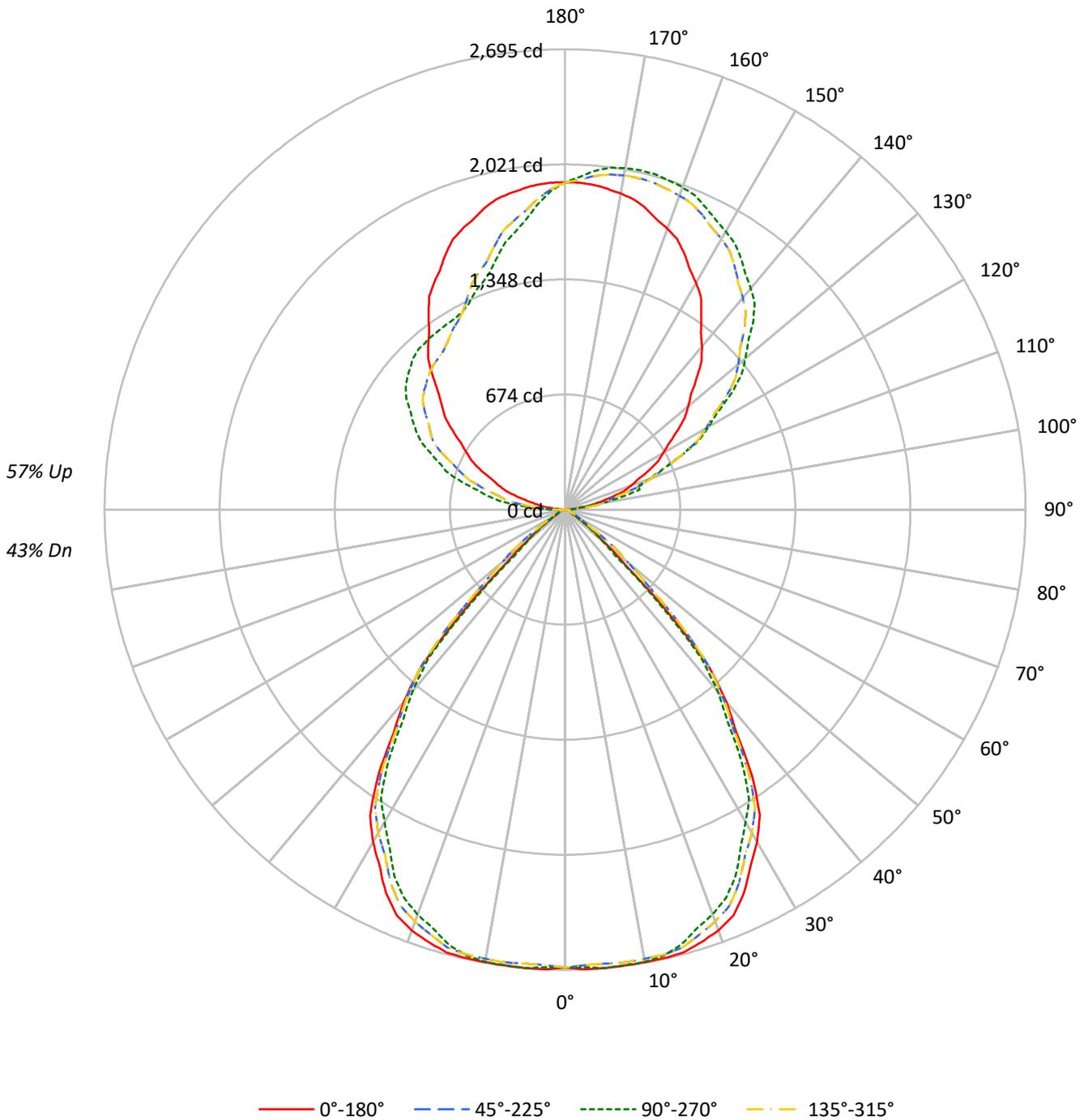
Lumens per Lamp: N/A  
Luminaire Lumens: 9793.7 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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**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	79	79	79	64	64	64	50	50	50	43
1	98	94	91	88	89	86	83	81	72	70	68	58	57	56	46	45	45	39
2	90	84	79	74	83	77	73	69	65	62	59	53	51	49	43	41	40	35
3	83	75	69	64	76	70	64	60	59	55	52	49	46	44	39	38	36	32
4	77	68	61	56	71	63	57	52	53	49	46	44	41	39	36	34	33	29
5	71	61	54	49	66	57	51	46	49	44	40	41	37	35	34	31	30	26
6	66	56	48	43	61	52	45	41	44	40	36	37	34	31	31	29	27	24
7	62	51	44	38	57	47	41	36	41	36	32	35	31	28	29	26	25	22
8	58	46	39	35	53	43	37	33	37	33	29	32	28	26	27	24	22	20
9	54	43	36	31	50	40	34	30	35	30	27	30	26	24	25	22	21	19
10	50	39	33	28	46	37	31	27	32	27	24	28	24	22	23	21	19	17

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

	0°	90°	180°	270°
0°	43285	43285	43285	43285
5°	43678	43657	43678	43657
10°	44121	44100	44121	44100
15°	44853	44059	44853	44059
20°	45068	43346	45068	43346
25°	44141	42126	44141	42126
30°	41882	39390	41882	39390
35°	37668	35539	37668	35539
40°	30879	29254	30879	29254
45°	19308	18134	19308	18134
50°	7553	6907	7553	6907
55°	3727	3690	3727	3690
60°	1744	1576	1744	1576
65°	1570	1475	1570	1475
70°	1515	1454	1515	1454
75°	1522	1360	1522	1360
80°	1432	1311	1432	1311
85°	1426	1186	1426	1186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°  
 Vertical Angle: 45°  
 Luminance: 21979 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.3	2.6
10°-20°	749.5	7.7
20°-30°	1108.2	11.3
30°-40°	1146.6	11.7
40°-50°	689.7	7.0
50°-60°	164.9	1.7
60°-70°	45.1	0.5
70°-80°	25.2	0.3
80°-90°	15.9	0.2
90°-100°	152.4	1.6
100°-110°	444.5	4.5
110°-120°	725.4	7.4
120°-130°	920.5	9.4
130°-140°	985.0	10.1
140°-150°	919.8	9.4
150°-160°	756.8	7.7
160°-170°	507.6	5.2
170°-180°	180.2	1.8
0°-30°	2114.0	21.6
0°-40°	3260.6	33.3
0°-60°	4115.2	42.0
0°-90°	4201.4	42.9
90°-120°	1322.4	13.5
90°-150°	4147.7	42.4
90°-180°	5592.0	57.1
0°-180°	9793.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2681	2681	2681	2681	2681	
5°	2695	2694	2695	2694	2695	257
15°	2683	2636	2683	2636	2683	756
25°	2478	2365	2478	2365	2478	1133
35°	1911	1803	1911	1803	1911	1173
45°	846	794	846	794	846	654
55°	132	131	132	131	132	133
65°	41	39	41	39	41	41
75°	24	22	24	22	24	25
85°	8	6	8	6	8	8
90°	6	43	6	83	6	5
95°	60	44	60	261	60	72
105°	282	453	282	623	282	300
115°	542	751	542	925	542	534
125°	801	1190	801	1134	801	717
135°	1089	1557	1089	1256	1089	842
145°	1391	1795	1391	1283	1391	870
155°	1652	1950	1652	1331	1652	759
165°	1826	2033	1826	1532	1826	514
175°	1910	1991	1910	1797	1910	181
180°	1915	1915	1915	1915	1915	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2694.2	2691.0	2687.8	2679.8	2670.2	2670.5	2680.5	2687.5	2685.2	2682.9	2685.2
5°	2695.0	2691.0	2687.0	2677.9	2667.0	2669.6	2685.6	2697.2	2695.4	2693.7	2695.4
7.5°	2692.2	2690.5	2688.8	2682.1	2673.7	2675.6	2687.7	2696.2	2693.5	2690.9	2693.5
10°	2691.2	2691.7	2692.3	2683.4	2671.4	2671.7	2684.3	2693.3	2691.6	2689.9	2691.6
12.5°	2690.1	2694.8	2699.5	2687.6	2670.1	2666.3	2676.1	2682.4	2678.4	2674.4	2678.4
15°	2683.4	2692.6	2701.7	2685.6	2661.0	2648.7	2648.7	2647.3	2641.6	2635.9	2641.6
17.5°	2654.9	2665.8	2676.6	2654.7	2622.0	2601.2	2592.4	2584.0	2577.1	2570.1	2577.1
20°	2623.0	2633.9	2644.7	2618.8	2580.5	2554.2	2539.9	2528.5	2525.7	2522.8	2525.7
22.5°	2572.7	2584.4	2596.2	2568.4	2527.4	2499.0	2483.4	2470.5	2465.8	2461.1	2465.8
25°	2477.8	2487.0	2496.1	2467.1	2425.4	2398.8	2387.4	2377.3	2371.0	2364.7	2371.0
27.5°	2351.4	2356.4	2361.4	2333.4	2294.3	2268.2	2255.2	2243.3	2234.6	2225.9	2234.6
30°	2246.5	2248.8	2251.1	2228.5	2197.6	2173.7	2156.5	2140.2	2126.5	2112.8	2126.5
32.5°	2122.1	2124.4	2126.6	2106.8	2079.6	2057.9	2041.7	2026.8	2015.8	2004.9	2015.8
35°	1911.1	1909.9	1908.8	1896.1	1879.5	1861.8	1842.9	1825.9	1814.5	1803.1	1814.5
37.5°	1647.1	1648.7	1650.3	1640.8	1627.7	1613.7	1598.8	1584.8	1573.3	1561.7	1573.3
40°	1465.1	1466.2	1467.4	1459.5	1448.7	1432.4	1410.7	1393.7	1390.8	1388.0	1390.8
42.5°	1243.0	1260.2	1277.3	1270.4	1255.4	1239.6	1222.9	1207.0	1193.7	1180.3	1193.7
45°	845.6	897.6	949.6	962.6	962.6	952.6	932.6	903.9	849.1	794.2	849.1
47.5°	477.6	536.7	595.9	634.8	666.9	653.2	593.8	532.6	466.0	399.4	466.0
50°	300.7	340.7	380.7	430.5	483.7	469.1	386.8	319.6	297.3	275.0	297.3
52.5°	213.3	233.7	254.0	301.0	356.9	350.1	280.6	225.6	213.8	202.0	213.8
55°	132.4	139.8	147.2	170.1	198.1	196.3	164.9	140.2	135.7	131.1	135.7
57.5°	78.7	86.3	94.0	104.1	115.1	115.1	104.1	94.1	86.9	79.7	86.9
60°	54.0	60.3	66.5	75.0	84.1	83.0	71.5	61.4	55.1	48.8	55.1
62.5°	46.8	49.4	52.0	58.5	66.3	65.6	56.5	49.1	46.9	44.7	46.9
65°	41.1	41.7	42.3	42.8	43.4	43.1	42.0	40.8	39.7	38.6	39.7
67.5°	36.2	36.8	37.4	37.2	36.7	36.4	36.3	36.0	35.0	33.9	35.0
70°	32.1	32.7	33.3	33.4	33.4	33.1	32.6	32.0	31.4	30.8	31.4
72.5°	29.0	29.6	30.2	30.0	29.5	29.2	29.1	28.8	27.8	26.7	27.8
75°	24.4	24.4	24.4	24.4	24.4	24.1	23.6	23.0	22.4	21.8	22.4
77.5°	18.5	19.1	19.6	19.4	18.8	18.5	18.5	18.4	17.8	17.2	17.8
80°	15.4	16.0	16.6	16.3	15.7	15.4	15.4	15.3	14.7	14.1	14.7
82.5°	12.3	12.5	12.6	12.5	12.4	12.3	12.3	12.2	11.6	11.1	11.6
85°	7.7	7.7	7.7	7.3	6.7	6.4	6.4	6.4	6.4	6.4	6.4
87.5°	3.2	5.2	7.6	8.9	9.6	9.8	9.8	10.2	10.6	10.6	10.6
90°	5.8	13.5	23.2	31.0	36.8	38.7	38.7	40.6	42.6	42.6	42.6
92.5°	21.3	33.7	34.0	34.0	41.4	44.9	48.0	48.4	50.3	50.3	50.3
95°	60.0	65.8	98.7	96.7	65.8	52.2	44.5	44.5	44.5	44.5	44.5
97.5°	114.5	123.0	128.5	172.2	181.9	175.7	143.2	120.3	107.6	101.8	107.6
100°	162.5	166.4	178.0	179.9	228.3	274.7	251.5	222.5	212.8	207.0	212.8
102.5°	210.5	212.8	230.6	238.7	250.0	276.3	356.7	347.8	341.3	340.1	341.3
105°	282.5	284.4	317.3	332.8	340.5	340.5	338.6	377.3	439.2	452.7	439.2
107.5°	359.5	368.4	407.0	448.4	457.3	459.7	449.6	443.8	441.5	443.0	441.5
110°	412.1	425.6	472.1	524.3	537.8	541.7	537.8	532.0	528.2	528.2	528.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	463.2	482.9	535.5	595.5	618.3	629.9	621.4	617.2	613.3	616.4	613.3
115°	541.7	570.7	640.4	702.3	748.7	754.5	752.6	752.6	750.6	750.6	750.6
117.5°	614.4	660.9	739.0	811.0	864.8	880.3	888.0	885.7	883.4	887.2	883.4
120°	665.5	719.7	808.7	889.9	942.2	965.4	973.1	969.3	973.1	969.3	973.1
122.5°	719.7	786.2	873.7	958.0	1019.6	1045.9	1055.2	1055.9	1056.7	1054.4	1056.7
125°	800.9	882.2	984.7	1071.8	1135.6	1166.6	1174.3	1176.3	1180.1	1189.8	1180.1
127.5°	883.0	975.1	1087.7	1171.6	1237.0	1274.5	1286.5	1290.8	1298.9	1303.2	1298.9
130°	940.2	1044.7	1158.8	1238.2	1302.0	1342.6	1363.9	1369.7	1379.4	1377.5	1379.4
132.5°	1000.6	1109.7	1225.4	1307.8	1367.0	1410.7	1428.9	1445.6	1449.0	1451.8	1449.0
135°	1089.2	1207.2	1323.3	1404.5	1460.7	1503.2	1526.4	1541.9	1551.6	1557.4	1551.6
137.5°	1182.5	1307.0	1418.5	1490.8	1547.3	1584.1	1610.4	1626.6	1636.7	1641.3	1636.7
140°	1245.9	1365.9	1474.2	1549.6	1599.9	1636.7	1659.9	1679.3	1690.9	1690.9	1690.9
142.5°	1306.3	1424.7	1529.9	1605.4	1649.5	1683.1	1707.9	1722.6	1735.8	1735.8	1735.8
145°	1391.0	1509.0	1605.8	1681.2	1718.0	1748.9	1776.0	1787.6	1795.3	1795.3	1795.3
147.5°	1479.6	1584.1	1672.3	1744.7	1775.6	1812.0	1833.3	1842.6	1852.2	1848.0	1852.2
150°	1532.2	1629.0	1714.1	1781.8	1812.8	1847.6	1868.9	1876.6	1886.3	1880.5	1886.3
152.5°	1583.3	1675.4	1752.8	1815.9	1842.2	1877.0	1901.4	1909.1	1915.7	1911.4	1915.7
155°	1652.2	1733.4	1805.0	1863.1	1886.3	1919.2	1942.4	1952.1	1959.8	1950.1	1959.8
157.5°	1713.7	1783.7	1846.0	1899.4	1924.2	1952.4	1974.1	1986.1	1993.8	1989.6	1993.8
160°	1750.8	1814.7	1870.8	1921.1	1944.3	1969.5	1992.7	2006.2	2014.0	2008.2	2014.0
162.5°	1781.8	1839.5	1892.5	1938.1	1958.2	1980.3	2008.2	2020.2	2027.9	2020.5	2027.9
165°	1826.3	1872.7	1919.2	1957.9	1975.3	1992.7	2021.7	2035.2	2041.0	2033.3	2041.0
167.5°	1860.0	1895.6	1933.1	1966.4	1979.1	1996.2	2025.2	2036.4	2043.8	2034.1	2043.8
170°	1878.5	1909.5	1942.4	1969.5	1979.1	1994.6	2023.6	2033.3	2039.1	2029.4	2039.1
172.5°	1894.0	1917.2	1943.9	1967.9	1972.9	1985.3	2012.8	2022.5	2026.7	2018.6	2026.7
175°	1909.5	1923.0	1942.4	1957.9	1955.9	1963.7	1986.9	1994.6	2002.4	1990.7	2002.4
177.5°	1916.8	1923.0	1929.2	1938.5	1932.3	1932.3	1949.3	1954.0	1955.5	1949.3	1955.5
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2687.5	2680.5	2670.5	2670.2	2679.8	2687.8	2691.0	2694.2	2691.0	2687.8	2679.8
5°	2697.2	2685.6	2669.6	2667.0	2677.9	2687.0	2691.0	2695.0	2691.0	2687.0	2677.9
7.5°	2696.2	2687.7	2675.6	2673.7	2682.1	2688.8	2690.5	2692.2	2690.5	2688.8	2682.1
10°	2693.3	2684.3	2671.7	2671.4	2683.4	2692.3	2691.7	2691.2	2691.7	2692.3	2683.4
12.5°	2682.4	2676.1	2666.3	2670.1	2687.6	2699.5	2694.8	2690.1	2694.8	2699.5	2687.6
15°	2647.3	2648.7	2648.7	2661.0	2685.6	2701.7	2692.6	2683.4	2692.6	2701.7	2685.6
17.5°	2584.0	2592.4	2601.2	2622.0	2654.7	2676.6	2665.8	2654.9	2665.8	2676.6	2654.7
20°	2528.5	2539.9	2554.2	2580.5	2618.8	2644.7	2633.9	2623.0	2633.9	2644.7	2618.8
22.5°	2470.5	2483.4	2499.0	2527.4	2568.4	2596.2	2584.4	2572.7	2584.4	2596.2	2568.4
25°	2377.3	2387.4	2398.8	2425.4	2467.1	2496.1	2487.0	2477.8	2487.0	2496.1	2467.1
27.5°	2243.3	2255.2	2268.2	2294.3	2333.4	2361.4	2356.4	2351.4	2356.4	2361.4	2333.4
30°	2140.2	2156.5	2173.7	2197.6	2228.5	2251.1	2248.8	2246.5	2248.8	2251.1	2228.5
32.5°	2026.8	2041.7	2057.9	2079.6	2106.8	2126.6	2124.4	2122.1	2124.4	2126.6	2106.8
35°	1825.9	1842.9	1861.8	1879.5	1896.1	1908.8	1909.9	1911.1	1909.9	1908.8	1896.1
37.5°	1584.8	1598.8	1613.7	1627.7	1640.8	1650.3	1648.7	1647.1	1648.7	1650.3	1640.8
40°	1393.7	1410.7	1432.4	1448.7	1459.5	1467.4	1466.2	1465.1	1466.2	1467.4	1459.5
42.5°	1207.0	1222.9	1239.6	1255.4	1270.4	1277.3	1260.2	1243.0	1260.2	1277.3	1270.4
45°	903.9	932.6	952.6	962.6	962.6	949.6	897.6	845.6	897.6	949.6	962.6
47.5°	532.6	593.8	653.2	666.9	634.8	595.9	536.7	477.6	536.7	595.9	634.8
50°	319.6	386.8	469.1	483.7	430.5	380.7	340.7	300.7	340.7	380.7	430.5
52.5°	225.6	280.6	350.1	356.9	301.0	254.0	233.7	213.3	233.7	254.0	301.0
55°	140.2	164.9	196.3	198.1	170.1	147.2	139.8	132.4	139.8	147.2	170.1
57.5°	94.1	104.1	115.1	115.1	104.1	94.0	86.3	78.7	86.3	94.0	104.1
60°	61.4	71.5	83.0	84.1	75.0	66.5	60.3	54.0	60.3	66.5	75.0
62.5°	49.1	56.5	65.6	66.3	58.5	52.0	49.4	46.8	49.4	52.0	58.5
65°	40.8	42.0	43.1	43.4	42.8	42.3	41.7	41.1	41.7	42.3	42.8
67.5°	36.0	36.3	36.4	36.7	37.2	37.4	36.8	36.2	36.8	37.4	37.2
70°	32.0	32.6	33.1	33.4	33.4	33.3	32.7	32.1	32.7	33.3	33.4
72.5°	28.8	29.1	29.2	29.5	30.0	30.2	29.6	29.0	29.6	30.2	30.0
75°	23.0	23.6	24.1	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
77.5°	18.4	18.5	18.5	18.8	19.4	19.6	19.1	18.5	19.1	19.6	19.4
80°	15.3	15.4	15.4	15.7	16.3	16.6	16.0	15.4	16.0	16.6	16.3
82.5°	12.2	12.3	12.3	12.4	12.5	12.6	12.5	12.3	12.5	12.6	12.5
85°	6.4	6.4	6.4	6.7	7.3	7.7	7.7	7.7	7.7	7.7	7.3
87.5°	10.2	9.8	9.8	9.6	8.9	7.6	5.2	3.2	5.2	7.2	9.7
90°	40.6	38.7	38.7	36.8	31.0	23.2	13.5	5.8	13.5	21.3	34.8
92.5°	48.4	48.0	44.9	41.4	34.0	34.0	33.7	21.3	36.8	52.2	75.1
95°	44.5	44.5	52.2	65.8	96.7	98.7	65.8	60.0	85.1	119.9	150.9
97.5°	120.3	143.2	175.7	181.9	172.2	128.5	123.0	114.5	155.9	190.4	240.3
100°	222.5	251.5	274.7	228.3	179.9	178.0	166.4	162.5	207.0	239.9	288.3
102.5°	347.8	356.7	276.3	250.0	238.7	230.6	212.8	210.5	255.0	300.3	340.9
105°	377.3	338.6	340.5	340.5	332.8	317.3	284.4	282.5	332.8	385.0	435.3
107.5°	443.8	449.6	459.7	457.3	448.4	407.0	368.4	359.5	404.7	467.4	522.7
110°	532.0	537.8	541.7	537.8	524.3	472.1	425.6	412.1	452.7	518.5	578.5



TEST NUMBER: P1428569

CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	617.2	621.4	629.9	618.3	595.5	535.5	482.9	463.2	503.8	571.1	632.6
115°	752.6	752.6	754.5	748.7	702.3	640.4	570.7	541.7	576.5	638.4	706.1
117.5°	885.7	888.0	880.3	864.8	811.0	739.0	660.9	614.4	641.9	707.3	777.0
120°	969.3	973.1	965.4	942.2	889.9	808.7	719.7	665.5	686.8	750.6	820.3
122.5°	1055.9	1055.2	1045.9	1019.6	958.0	873.7	786.2	719.7	728.6	787.8	855.9
125°	1176.3	1174.3	1166.6	1135.6	1071.8	984.7	882.2	800.9	789.3	839.6	909.3
127.5°	1290.8	1286.5	1274.5	1237.0	1171.6	1087.7	975.1	883.0	857.0	888.8	952.6
130°	1369.7	1363.9	1342.6	1302.0	1238.2	1158.8	1044.7	940.2	903.5	922.8	978.9
132.5°	1445.6	1428.9	1410.7	1367.0	1307.8	1225.4	1109.7	1000.6	949.9	958.4	1002.1
135°	1541.9	1526.4	1503.2	1460.7	1404.5	1323.3	1207.2	1089.2	1019.6	1011.8	1037.0
137.5°	1626.6	1610.4	1584.1	1547.3	1490.8	1418.5	1307.0	1182.5	1094.6	1068.7	1078.4
140°	1679.3	1659.9	1636.7	1599.9	1549.6	1474.2	1365.9	1245.9	1147.2	1110.5	1104.7
142.5°	1722.6	1707.9	1683.1	1649.5	1605.4	1529.9	1424.7	1306.3	1201.4	1153.8	1140.3
145°	1787.6	1776.0	1748.9	1718.0	1681.2	1605.8	1509.0	1391.0	1286.5	1224.6	1195.6
147.5°	1842.6	1833.3	1812.0	1775.6	1744.7	1672.3	1584.1	1479.6	1372.4	1295.8	1258.3
150°	1876.6	1868.9	1847.6	1812.8	1781.8	1714.1	1629.0	1532.2	1429.7	1348.4	1300.1
152.5°	1909.1	1901.4	1877.0	1842.2	1815.9	1752.8	1675.4	1583.3	1479.2	1398.0	1348.1
155°	1952.1	1942.4	1919.2	1886.3	1863.1	1805.0	1733.4	1652.2	1563.2	1478.1	1422.0
157.5°	1986.1	1974.1	1952.4	1924.2	1899.4	1846.0	1783.7	1713.7	1635.9	1554.7	1497.4
160°	2006.2	1992.7	1969.5	1944.3	1921.1	1870.8	1814.7	1750.8	1679.3	1605.8	1543.8
162.5°	2020.2	2008.2	1980.3	1958.2	1938.1	1892.5	1839.5	1781.8	1718.0	1653.7	1596.5
165°	2035.2	2021.7	1992.7	1975.3	1957.9	1919.2	1872.7	1826.3	1772.1	1719.9	1673.5
167.5°	2036.4	2025.2	1996.2	1979.1	1966.4	1933.1	1895.6	1860.0	1817.8	1776.8	1738.1
170°	2033.3	2023.6	1994.6	1979.1	1969.5	1942.4	1909.5	1878.5	1845.6	1810.8	1779.9
172.5°	2022.5	2012.8	1985.3	1972.9	1967.9	1943.9	1917.2	1894.0	1865.8	1840.2	1815.5
175°	1994.6	1986.9	1963.7	1955.9	1957.9	1942.4	1923.0	1909.5	1892.1	1876.6	1863.1
177.5°	1954.0	1949.3	1932.3	1932.3	1938.5	1929.2	1923.0	1916.8	1909.1	1904.5	1899.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1428569

CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2670.2	2670.5	2680.5	2687.5	2685.2	2682.9	2685.2	2687.5	2680.5	2670.5	2670.2
5°	2667.0	2669.6	2685.6	2697.2	2695.4	2693.7	2695.4	2697.2	2685.6	2669.6	2667.0
7.5°	2673.7	2675.6	2687.7	2696.2	2693.5	2690.9	2693.5	2696.2	2687.7	2675.6	2673.7
10°	2671.4	2671.7	2684.3	2693.3	2691.6	2689.9	2691.6	2693.3	2684.3	2671.7	2671.4
12.5°	2670.1	2666.3	2676.1	2682.4	2678.4	2674.4	2678.4	2682.4	2676.1	2666.3	2670.1
15°	2661.0	2648.7	2648.7	2647.3	2641.6	2635.9	2641.6	2647.3	2648.7	2648.7	2661.0
17.5°	2622.0	2601.2	2592.4	2584.0	2577.1	2570.1	2577.1	2584.0	2592.4	2601.2	2622.0
20°	2580.5	2554.2	2539.9	2528.5	2525.7	2522.8	2525.7	2528.5	2539.9	2554.2	2580.5
22.5°	2527.4	2499.0	2483.4	2470.5	2465.8	2461.1	2465.8	2470.5	2483.4	2499.0	2527.4
25°	2425.4	2398.8	2387.4	2377.3	2371.0	2364.7	2371.0	2377.3	2387.4	2398.8	2425.4
27.5°	2294.3	2268.2	2255.2	2243.3	2234.6	2225.9	2234.6	2243.3	2255.2	2268.2	2294.3
30°	2197.6	2173.7	2156.5	2140.2	2126.5	2112.8	2126.5	2140.2	2156.5	2173.7	2197.6
32.5°	2079.6	2057.9	2041.7	2026.8	2015.8	2004.9	2015.8	2026.8	2041.7	2057.9	2079.6
35°	1879.5	1861.8	1842.9	1825.9	1814.5	1803.1	1814.5	1825.9	1842.9	1861.8	1879.5
37.5°	1627.7	1613.7	1598.8	1584.8	1573.3	1561.7	1573.3	1584.8	1598.8	1613.7	1627.7
40°	1448.7	1432.4	1410.7	1393.7	1390.8	1388.0	1390.8	1393.7	1410.7	1432.4	1448.7
42.5°	1255.4	1239.6	1222.9	1207.0	1193.7	1180.3	1193.7	1207.0	1222.9	1239.6	1255.4
45°	962.6	952.6	932.6	903.9	849.1	794.2	849.1	903.9	932.6	952.6	962.6
47.5°	666.9	653.2	593.8	532.6	466.0	399.4	466.0	532.6	593.8	653.2	666.9
50°	483.7	469.1	386.8	319.6	297.3	275.0	297.3	319.6	386.8	469.1	483.7
52.5°	356.9	350.1	280.6	225.6	213.8	202.0	213.8	225.6	280.6	350.1	356.9
55°	198.1	196.3	164.9	140.2	135.7	131.1	135.7	140.2	164.9	196.3	198.1
57.5°	115.1	115.1	104.1	94.1	86.9	79.7	86.9	94.1	104.1	115.1	115.1
60°	84.1	83.0	71.5	61.4	55.1	48.8	55.1	61.4	71.5	83.0	84.1
62.5°	66.3	65.6	56.5	49.1	46.9	44.7	46.9	49.1	56.5	65.6	66.3
65°	43.4	43.1	42.0	40.8	39.7	38.6	39.7	40.8	42.0	43.1	43.4
67.5°	36.7	36.4	36.3	36.0	35.0	33.9	35.0	36.0	36.3	36.4	36.7
70°	33.4	33.1	32.6	32.0	31.4	30.8	31.4	32.0	32.6	33.1	33.4
72.5°	29.5	29.2	29.1	28.8	27.8	26.7	27.8	28.8	29.1	29.2	29.5
75°	24.4	24.1	23.6	23.0	22.4	21.8	22.4	23.0	23.6	24.1	24.4
77.5°	18.8	18.5	18.5	18.4	17.8	17.2	17.8	18.4	18.5	18.5	18.8
80°	15.7	15.4	15.4	15.3	14.7	14.1	14.7	15.3	15.4	15.4	15.7
82.5°	12.4	12.3	12.3	12.2	11.6	11.1	11.6	12.2	12.3	12.3	12.4
85°	6.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.7
87.5°	11.2	13.7	16.4	17.9	19.5	18.7	19.5	17.9	16.4	13.7	11.2
90°	44.5	58.0	71.6	79.3	87.1	83.2	87.1	79.3	71.6	58.0	44.5
92.5°	89.4	112.2	128.8	142.8	149.0	148.2	149.0	142.8	128.8	112.2	89.4
95°	179.9	207.0	234.1	253.4	265.0	261.2	265.0	253.4	234.1	207.0	179.9
97.5°	277.4	313.8	344.0	362.2	373.8	381.5	373.8	362.2	344.0	313.8	277.4
100°	342.4	377.3	412.1	433.4	452.7	460.4	452.7	433.4	412.1	377.3	342.4
102.5°	395.1	440.7	478.6	501.5	517.7	525.4	517.7	501.5	478.6	440.7	395.1
105°	481.7	530.1	570.7	599.7	617.2	623.0	617.2	599.7	570.7	530.1	481.7
107.5°	568.4	618.3	655.8	688.0	709.2	721.6	709.2	688.0	655.8	618.3	568.4
110°	636.5	677.1	717.8	746.8	768.1	775.8	768.1	746.8	717.8	677.1	636.5



TEST NUMBER: P1428569

CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	693.8	739.0	779.7	808.7	833.1	843.9	833.1	808.7	779.7	739.0	693.8
115°	773.9	833.8	870.6	897.7	915.1	924.8	915.1	897.7	870.6	833.8	773.9
117.5°	840.4	903.1	943.3	964.2	972.4	979.3	972.4	964.2	943.3	903.1	840.4
120°	882.2	940.2	986.7	1013.8	1023.4	1027.3	1023.4	1013.8	986.7	940.2	882.2
122.5°	920.9	975.8	1020.7	1054.0	1069.9	1073.7	1069.9	1054.0	1020.7	975.8	920.9
125°	975.1	1027.3	1073.7	1106.6	1124.0	1133.7	1124.0	1106.6	1073.7	1027.3	975.1
127.5°	1022.3	1078.8	1121.3	1151.1	1168.1	1175.9	1168.1	1151.1	1121.3	1078.8	1022.3
130°	1048.6	1106.6	1149.2	1182.1	1197.5	1205.3	1197.5	1182.1	1149.2	1106.6	1048.6
132.5°	1068.7	1129.8	1173.9	1203.7	1220.8	1228.5	1220.8	1203.7	1173.9	1129.8	1068.7
135°	1093.1	1156.9	1203.3	1232.4	1247.8	1255.6	1247.8	1232.4	1203.3	1156.9	1093.1
137.5°	1114.4	1172.4	1220.8	1251.3	1265.3	1270.3	1265.3	1251.3	1220.8	1172.4	1114.4
140°	1129.8	1180.1	1228.5	1257.5	1273.0	1274.9	1273.0	1257.5	1228.5	1180.1	1129.8
142.5°	1150.0	1189.4	1231.6	1260.6	1276.1	1279.6	1276.1	1260.6	1231.6	1189.4	1150.0
145°	1185.9	1209.2	1238.2	1265.3	1278.8	1282.7	1278.8	1265.3	1238.2	1209.2	1185.9
147.5°	1231.2	1238.6	1253.6	1271.4	1284.6	1287.3	1284.6	1271.4	1253.6	1238.6	1231.2
150°	1265.3	1263.3	1269.1	1280.7	1292.3	1290.4	1292.3	1280.7	1269.1	1263.3	1265.3
152.5°	1303.9	1292.7	1292.3	1297.8	1303.2	1302.8	1303.2	1297.8	1292.3	1292.7	1303.9
155°	1369.7	1348.4	1336.8	1333.0	1333.0	1331.0	1333.0	1333.0	1336.8	1348.4	1369.7
157.5°	1442.1	1412.3	1394.9	1385.6	1382.9	1378.6	1382.9	1385.6	1394.9	1412.3	1442.1
160°	1491.6	1458.7	1441.3	1425.8	1420.0	1414.2	1420.0	1425.8	1441.3	1458.7	1491.6
162.5°	1538.0	1506.7	1487.7	1473.8	1468.0	1459.1	1468.0	1473.8	1487.7	1506.7	1538.0
165°	1613.5	1580.6	1559.3	1547.7	1540.0	1532.2	1540.0	1547.7	1559.3	1580.6	1613.5
167.5°	1688.9	1653.0	1639.0	1625.9	1618.5	1604.6	1618.5	1625.9	1639.0	1653.0	1688.9
170°	1735.4	1702.5	1694.7	1683.1	1669.6	1654.1	1669.6	1683.1	1694.7	1702.5	1735.4
172.5°	1775.6	1753.6	1745.8	1734.2	1730.0	1717.6	1730.0	1734.2	1745.8	1753.6	1775.6
175°	1834.0	1816.6	1816.6	1814.7	1808.9	1797.3	1808.9	1814.7	1816.6	1816.6	1834.0
177.5°	1882.8	1873.5	1879.7	1879.7	1878.1	1867.3	1878.1	1879.7	1879.7	1873.5	1882.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1428569

CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2680.9	2680.9	2680.9	2680.9
2.5°	2679.8	2687.8	2691.0	2694.2
5°	2677.9	2687.0	2691.0	2695.0
7.5°	2682.1	2688.8	2690.5	2692.2
10°	2683.4	2692.3	2691.7	2691.2
12.5°	2687.6	2699.5	2694.8	2690.1
15°	2685.6	2701.7	2692.6	2683.4
17.5°	2654.7	2676.6	2665.8	2654.9
20°	2618.8	2644.7	2633.9	2623.0
22.5°	2568.4	2596.2	2584.4	2572.7
25°	2467.1	2496.1	2487.0	2477.8
27.5°	2333.4	2361.4	2356.4	2351.4
30°	2228.5	2251.1	2248.8	2246.5
32.5°	2106.8	2126.6	2124.4	2122.1
35°	1896.1	1908.8	1909.9	1911.1
37.5°	1640.8	1650.3	1648.7	1647.1
40°	1459.5	1467.4	1466.2	1465.1
42.5°	1270.4	1277.3	1260.2	1243.0
45°	962.6	949.6	897.6	845.6
47.5°	634.8	595.9	536.7	477.6
50°	430.5	380.7	340.7	300.7
52.5°	301.0	254.0	233.7	213.3
55°	170.1	147.2	139.8	132.4
57.5°	104.1	94.0	86.3	78.7
60°	75.0	66.5	60.3	54.0
62.5°	58.5	52.0	49.4	46.8
65°	42.8	42.3	41.7	41.1
67.5°	37.2	37.4	36.8	36.2
70°	33.4	33.3	32.7	32.1
72.5°	30.0	30.2	29.6	29.0
75°	24.4	24.4	24.4	24.4
77.5°	19.4	19.6	19.1	18.5
80°	16.3	16.6	16.0	15.4
82.5°	12.5	12.6	12.5	12.3
85°	7.3	7.7	7.7	7.7
87.5°	9.7	7.2	5.2	3.2
90°	34.8	21.3	13.5	5.8
92.5°	75.1	52.2	36.8	21.3
95°	150.9	119.9	85.1	60.0
97.5°	240.3	190.4	155.9	114.5
100°	288.3	239.9	207.0	162.5
102.5°	340.9	300.3	255.0	210.5
105°	435.3	385.0	332.8	282.5
107.5°	522.7	467.4	404.7	359.5
110°	578.5	518.5	452.7	412.1



TEST NUMBER: P1428569

CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	632.6	571.1	503.8	463.2
115°	706.1	638.4	576.5	541.7
117.5°	777.0	707.3	641.9	614.4
120°	820.3	750.6	686.8	665.5
122.5°	855.9	787.8	728.6	719.7
125°	909.3	839.6	789.3	800.9
127.5°	952.6	888.8	857.0	883.0
130°	978.9	922.8	903.5	940.2
132.5°	1002.1	958.4	949.9	1000.6
135°	1037.0	1011.8	1019.6	1089.2
137.5°	1078.4	1068.7	1094.6	1182.5
140°	1104.7	1110.5	1147.2	1245.9
142.5°	1140.3	1153.8	1201.4	1306.3
145°	1195.6	1224.6	1286.5	1391.0
147.5°	1258.3	1295.8	1372.4	1479.6
150°	1300.1	1348.4	1429.7	1532.2
152.5°	1348.1	1398.0	1479.2	1583.3
155°	1422.0	1478.1	1563.2	1652.2
157.5°	1497.4	1554.7	1635.9	1713.7
160°	1543.8	1605.8	1679.3	1750.8
162.5°	1596.5	1653.7	1718.0	1781.8
165°	1673.5	1719.9	1772.1	1826.3
167.5°	1738.1	1776.8	1817.8	1860.0
170°	1779.9	1810.8	1845.6	1878.5
172.5°	1815.5	1840.2	1865.8	1894.0
175°	1863.1	1876.6	1892.1	1909.5
177.5°	1899.8	1904.5	1909.1	1916.8
180°	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1428569  
 CATALOG NUMBER: SQ2W-WBM-K-150U-100D-L930-UNV-STD-W-WM-4

**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	4.29	4.97	5.33	6.00	7.38	4.27	4.96	5.32	5.99	7.37
	3H	4.97	5.58	6.03	6.62	8.02	4.89	5.50	5.95	6.54	7.94
	4H	5.33	5.91	6.40	6.95	8.36	5.19	5.77	6.26	6.81	8.22
	6H	5.60	6.13	6.67	7.17	8.59	5.42	5.95	6.50	7.00	8.41
	8H	5.72	6.22	6.80	7.28	8.69	5.52	6.02	6.60	7.08	8.49
	12H	5.79	6.27	6.87	7.32	8.76	5.57	6.04	6.65	7.10	8.53
4H	2H	4.37	4.95	5.45	5.99	7.40	4.36	4.93	5.43	5.98	7.38
	3H	5.31	5.78	6.39	6.85	8.27	5.23	5.70	6.30	6.77	8.19
	4H	5.81	6.25	6.90	7.31	8.75	5.67	6.10	6.75	7.16	8.60
	6H	6.24	6.61	7.33	7.69	9.13	6.04	6.41	7.13	7.49	8.93
	8H	6.43	6.77	7.52	7.85	9.30	6.21	6.55	7.30	7.63	9.08
	12H	6.55	6.86	7.66	7.95	9.41	6.30	6.61	7.40	7.70	9.15
8H	4H	5.93	6.27	7.02	7.35	8.80	5.80	6.14	6.88	7.22	8.67
	6H	6.50	6.79	7.61	7.91	9.35	6.31	6.60	7.42	7.72	9.16
	8H	6.80	7.05	7.91	8.15	9.61	6.58	6.83	7.70	7.93	9.40
	12H	7.01	7.23	8.13	8.33	9.83	6.75	6.97	7.87	8.06	9.57
12H	4H	5.91	6.22	7.01	7.31	8.76	5.78	6.09	6.88	7.18	8.63
	6H	6.54	6.79	7.66	7.89	9.36	6.36	6.61	7.48	7.71	9.18
	8H	6.87	7.08	7.98	8.18	9.69	6.66	6.88	7.78	7.97	9.48