

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: P1436023

Luminaire Tested: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1436023  
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-125U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

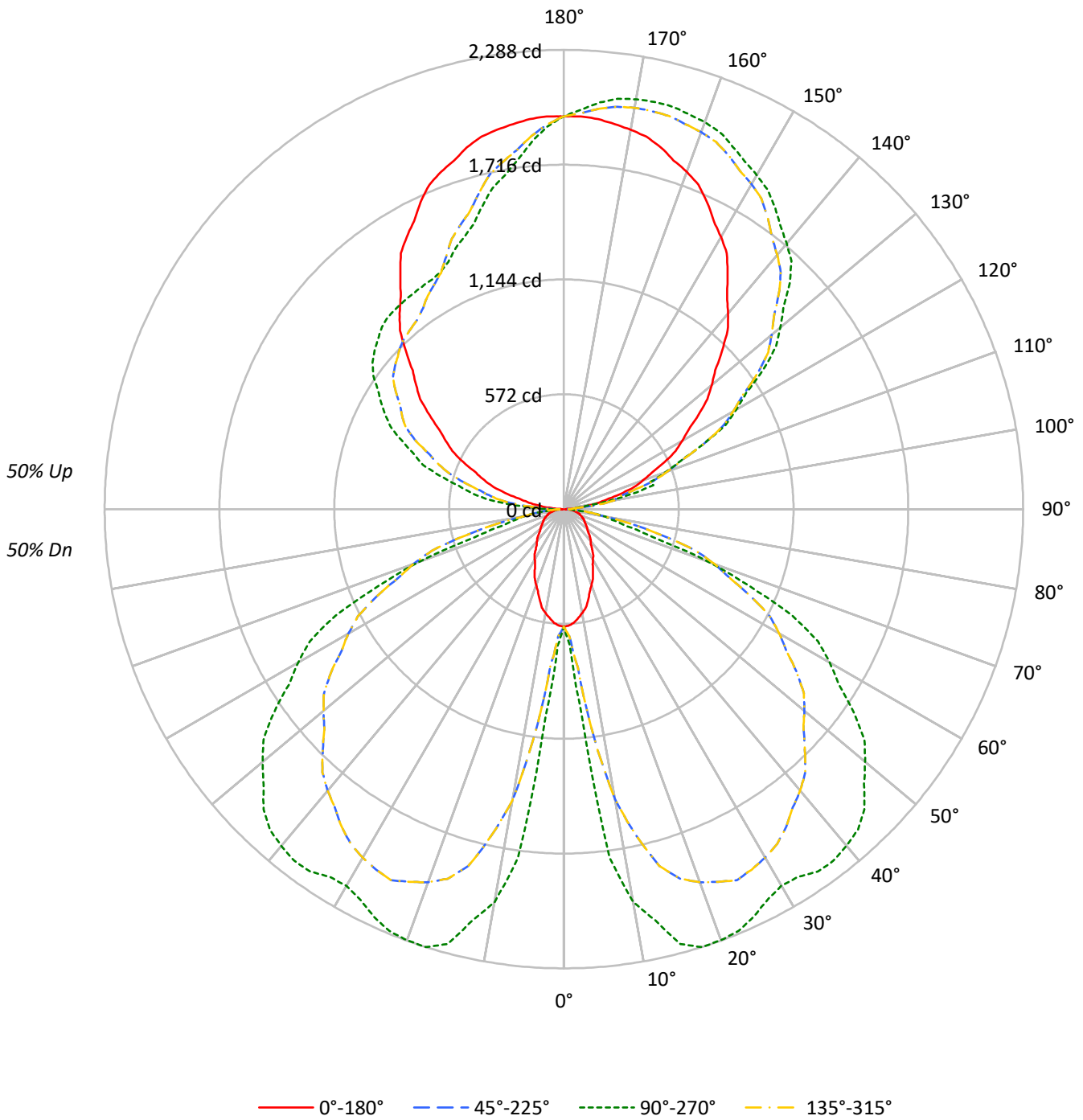
Lumens per Lamp: N/A  
Luminaire Lumens: 11502.8 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.2  
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

TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1436023

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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50				
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	50	48	47	42				
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	35				
3	81	71	63	57	74	65	59	54	56	51	46	46	43	39	38	35	33	29				
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28	24				
5	67	55	47	41	62	51	44	38	43	38	33	36	32	28	30	26	24	21				
6	62	49	41	35	56	46	38	33	39	33	29	33	28	25	27	23	21	18				
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	15				
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	19	16	13				
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12				
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	19	15	13	11				

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

	0°	90°	180°	270°
0°	9452	9452	9452	9452
5°	9214	16740	9214	16740
10°	8628	32576	8628	32576
15°	7809	37495	7809	37495
20°	6916	39267	6916	39267
25°	6118	39910	6118	39910
30°	5405	40404	5405	40404
35°	4827	43437	4827	43437
40°	4390	46151	4390	46151
45°	4048	48327	4048	48327
50°	3818	49204	3818	49204
55°	3724	49596	3724	49596
60°	3817	49350	3817	49350
65°	3977	47957	3977	47957
70°	4116	36273	4116	36273
75°	4566	20018	4566	20018
80°	4714	18577	4714	18577
85°	4687	7818	4687	7818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 50042 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	0.9
10°-20°	447.5	3.9
20°-30°	787.5	6.8
30°-40°	1019.4	8.9
40°-50°	1124.3	9.8
50°-60°	1049.3	9.1
60°-70°	810.7	7.0
70°-80°	373.7	3.2
80°-90°	79.5	0.7
90°-100°	155.7	1.4
100°-110°	454.1	3.9
110°-120°	741.1	6.4
120°-130°	940.4	8.2
130°-140°	1006.2	8.7
140°-150°	939.6	8.2
150°-160°	773.1	6.7
160°-170°	518.5	4.5
170°-180°	184.1	1.6
0°-30°	1333.1	11.6
0°-40°	2352.5	20.5
0°-60°	4526.1	39.3
0°-90°	5790.0	50.3
90°-120°	1350.9	11.7
90°-150°	4237.0	36.8
90°-180°	5713.0	49.7
0°-180°	11502.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	585	585	585	585	585	
5°	568	1033	568	1033	568	53
15°	467	2243	467	2243	467	130
25°	343	2240	343	2240	343	158
35°	245	2204	245	2204	245	154
45°	177	2116	177	2116	177	137
55°	132	1762	132	1762	132	119
65°	104	1255	104	1255	104	102
75°	73	321	73	321	73	75
85°	25	42	25	42	25	27
90°	6	44	6	85	6	6
95°	61	46	61	267	61	74
105°	288	462	288	636	288	307
115°	553	767	553	945	553	545
125°	818	1215	818	1158	818	732
135°	1113	1591	1113	1283	1113	860
145°	1421	1834	1421	1310	1421	889
155°	1688	1992	1688	1360	1688	776
165°	1866	2077	1866	1565	1866	525
175°	1951	2034	1951	1836	1951	185
180°	1956	1956	1956	1956	1956	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
2.5°	580.9	591.9	602.9	614.7	626.7	639.7	653.7	665.7	671.7	677.7	671.7
5°	568.5	606.1	643.6	698.0	758.0	826.2	902.5	967.9	1000.4	1032.9	1000.4
7.5°	546.6	622.9	699.2	860.9	1051.0	1248.4	1453.0	1622.8	1687.8	1752.9	1687.8
10°	526.3	632.6	739.0	1013.2	1343.5	1597.4	1775.0	1917.0	1952.0	1987.0	1952.0
12.5°	503.8	648.1	792.5	1131.1	1534.3	1798.3	1922.9	2025.3	2061.3	2097.4	2061.3
15°	467.2	673.6	880.0	1262.8	1704.3	1975.8	2077.1	2163.1	2203.1	2243.2	2203.1
17.5°	429.5	704.2	978.9	1369.4	1798.4	2063.1	2163.4	2244.1	2265.9	2287.6	2265.9
20°	402.5	725.2	1047.9	1439.2	1853.2	2103.4	2189.7	2257.9	2271.6	2285.4	2271.6
22.5°	377.7	738.5	1099.2	1490.9	1893.0	2126.6	2191.9	2244.6	2259.4	2274.1	2259.4
25°	343.4	749.9	1156.4	1547.0	1932.3	2145.6	2186.9	2220.3	2230.3	2240.3	2230.3
27.5°	310.2	739.7	1169.3	1554.9	1925.9	2125.0	2152.0	2174.7	2184.4	2194.2	2184.4
30°	289.9	726.5	1163.0	1545.2	1909.2	2101.2	2121.2	2139.7	2153.4	2167.2	2153.4
32.5°	271.9	710.4	1149.0	1526.4	1883.4	2071.4	2090.4	2112.1	2141.9	2171.7	2141.9
35°	244.9	676.4	1108.0	1481.4	1835.4	2027.4	2057.4	2093.7	2148.7	2203.8	2148.7
37.5°	221.8	632.8	1043.9	1413.4	1769.2	1978.5	2041.3	2101.6	2154.7	2207.7	2154.7
40°	208.3	602.3	996.3	1363.2	1720.9	1941.7	2025.5	2099.6	2144.7	2189.7	2144.7
42.5°	194.8	567.8	940.8	1304.6	1665.4	1894.7	1992.5	2077.1	2122.1	2167.2	2122.1
45°	177.3	512.6	847.8	1208.4	1577.4	1819.4	1934.5	2031.4	2074.0	2116.5	2074.0
47.5°	161.0	452.2	743.4	1105.5	1491.3	1745.2	1867.3	1966.7	1997.7	2028.7	1997.7
50°	152.0	412.2	672.4	1035.7	1433.5	1692.5	1812.5	1908.9	1933.9	1958.9	1933.9
52.5°	143.0	373.1	603.3	967.4	1376.2	1637.2	1750.2	1840.8	1863.8	1886.8	1863.8
55°	132.3	319.9	507.5	867.8	1285.6	1543.9	1642.7	1721.9	1741.9	1761.9	1741.9
57.5°	122.7	274.1	425.4	774.4	1189.2	1438.7	1523.0	1590.3	1606.6	1622.8	1606.6
60°	118.2	249.6	380.9	715.8	1118.6	1358.2	1434.5	1495.8	1512.0	1528.3	1512.0
62.5°	111.5	225.8	340.1	657.3	1042.1	1269.6	1339.9	1396.4	1411.7	1427.0	1411.7
65°	104.1	196.7	289.3	575.1	925.3	1129.9	1188.7	1235.3	1245.3	1255.3	1245.3
67.5°	94.0	172.6	251.1	499.9	805.3	976.3	1012.8	1035.6	1016.8	998.0	1016.8
70°	87.2	159.8	232.4	454.1	725.5	867.5	880.0	875.9	822.1	768.4	822.1
72.5°	82.7	147.3	211.8	403.8	638.2	741.7	714.1	668.0	566.2	464.4	566.2
75°	73.2	125.7	178.3	322.7	497.9	525.4	405.3	315.9	318.4	320.9	318.4
77.5°	59.7	98.9	138.2	227.0	332.4	353.3	289.7	242.6	244.9	247.1	244.9
80°	50.7	81.9	113.2	148.2	184.5	201.4	198.9	197.3	198.6	199.8	198.6
82.5°	41.7	64.9	88.2	109.2	129.5	140.9	143.4	144.8	143.0	141.3	143.0
85°	25.3	39.1	52.9	61.0	67.2	65.4	55.4	47.2	44.7	42.2	44.7
87.5°	10.2	16.8	23.8	23.6	20.8	19.2	19.2	19.6	20.0	20.0	20.0
90°	5.9	13.8	23.7	31.6	37.5	39.5	39.5	41.5	43.5	43.5	43.5
92.5°	21.7	34.4	34.8	34.8	42.3	45.9	49.0	49.4	51.4	51.4	51.4
95°	61.3	67.2	100.8	98.8	67.2	53.4	45.5	45.5	45.5	45.5	45.5
97.5°	117.0	125.7	131.2	175.9	185.8	179.4	146.2	122.9	109.9	104.0	109.9
100°	166.0	170.0	181.8	183.8	233.2	280.6	256.9	227.3	217.4	211.5	217.4
102.5°	215.0	217.4	235.6	243.9	255.3	282.2	364.4	355.3	348.6	347.4	348.6
105°	288.5	290.5	324.1	339.9	347.8	347.8	345.9	385.4	448.6	462.5	448.6
107.5°	367.2	376.3	415.8	458.1	467.2	469.6	459.3	453.4	451.0	452.6	451.0
110°	421.0	434.8	482.2	535.6	549.4	553.4	549.4	543.5	539.5	539.5	539.5

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	473.1	493.3	547.0	608.3	631.6	643.5	634.8	630.4	626.5	629.7	626.5
115°	553.4	583.0	654.2	717.4	764.8	770.8	768.8	768.8	766.8	766.8	766.8
117.5°	627.7	675.1	754.9	828.5	883.4	899.2	907.1	904.8	902.4	906.3	902.4
120°	679.8	735.2	826.1	909.1	962.5	986.2	994.1	990.1	994.1	990.1	994.1
122.5°	735.2	803.2	892.5	978.7	1041.5	1068.4	1077.9	1078.7	1079.5	1077.1	1079.5
125°	818.2	901.2	1005.9	1094.9	1160.1	1191.7	1199.6	1201.6	1205.5	1215.4	1205.5
127.5°	902.0	996.1	1111.1	1196.9	1263.7	1302.0	1314.2	1318.6	1326.9	1331.2	1326.9
130°	960.5	1067.2	1183.8	1264.8	1330.1	1371.6	1393.3	1399.2	1409.1	1407.1	1409.1
132.5°	1022.1	1133.6	1251.8	1336.0	1396.5	1441.1	1459.7	1476.7	1480.3	1483.0	1480.3
135°	1112.7	1233.2	1351.8	1434.8	1492.1	1535.6	1559.3	1575.1	1585.0	1590.9	1585.0
137.5°	1207.9	1335.2	1449.0	1522.9	1580.7	1618.2	1645.1	1661.7	1672.0	1676.7	1672.0
140°	1272.7	1395.3	1505.9	1583.0	1634.4	1672.0	1695.7	1715.4	1727.3	1727.3	1727.3
142.5°	1334.4	1455.4	1562.9	1639.9	1685.0	1719.4	1744.7	1759.7	1773.1	1773.1	1773.1
145°	1421.0	1541.5	1640.3	1717.4	1755.0	1786.6	1814.3	1826.1	1834.0	1834.0	1834.0
147.5°	1511.5	1618.2	1708.3	1782.2	1813.9	1851.0	1872.7	1882.2	1892.1	1887.8	1892.1
150°	1565.2	1664.1	1751.0	1820.2	1851.8	1887.4	1909.1	1917.0	1926.9	1921.0	1926.9
152.5°	1617.4	1711.5	1790.5	1855.0	1881.8	1917.4	1942.3	1950.2	1956.9	1952.6	1956.9
155°	1687.8	1770.8	1843.9	1903.2	1926.9	1960.5	1984.2	1994.1	2002.0	1992.1	2002.0
157.5°	1750.6	1822.2	1885.8	1940.3	1965.6	1994.5	2016.6	2028.9	2036.8	2032.4	2036.8
160°	1788.6	1853.8	1911.1	1962.5	1986.2	2011.9	2035.6	2049.4	2057.3	2051.4	2057.3
162.5°	1820.2	1879.1	1933.2	1979.9	2000.4	2022.9	2051.4	2063.7	2071.6	2064.1	2071.6
165°	1865.6	1913.1	1960.5	2000.0	2017.8	2035.6	2065.2	2079.1	2085.0	2077.1	2085.0
167.5°	1900.0	1936.4	1974.7	2008.7	2021.8	2039.2	2068.8	2080.3	2087.8	2077.9	2087.8
170°	1919.0	1950.6	1984.2	2011.9	2021.8	2037.6	2067.2	2077.1	2083.0	2073.1	2083.0
172.5°	1934.8	1958.5	1985.8	2010.3	2015.4	2028.1	2056.2	2066.0	2070.4	2062.1	2070.4
175°	1950.6	1964.5	1984.2	2000.0	1998.0	2006.0	2029.7	2037.6	2045.5	2033.6	2045.5
177.5°	1958.1	1964.5	1970.8	1980.3	1973.9	1973.9	1991.3	1996.1	1997.7	1991.3	1997.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
2.5°	665.7	653.7	639.7	626.7	614.7	602.9	591.9	580.9	591.9	602.9	614.7
5°	967.9	902.5	826.2	758.0	698.0	643.6	606.1	568.5	606.1	643.6	698.0
7.5°	1622.8	1453.0	1248.4	1051.0	860.9	699.2	622.9	546.6	622.9	699.2	860.9
10°	1917.0	1775.0	1597.4	1343.5	1013.2	739.0	632.6	526.3	632.6	739.0	1013.2
12.5°	2025.3	1922.9	1798.3	1534.3	1131.1	792.5	648.1	503.8	648.1	792.5	1131.1
15°	2163.1	2077.1	1975.8	1704.3	1262.8	880.0	673.6	467.2	673.6	880.0	1262.8
17.5°	2244.1	2163.4	2063.1	1798.4	1369.4	978.9	704.2	429.5	704.2	978.9	1369.4
20°	2257.9	2189.7	2103.4	1853.2	1439.2	1047.9	725.2	402.5	725.2	1047.9	1439.2
22.5°	2244.6	2191.9	2126.6	1893.0	1490.9	1099.2	738.5	377.7	738.5	1099.2	1490.9
25°	2220.3	2186.9	2145.6	1932.3	1547.0	1156.4	749.9	343.4	749.9	1156.4	1547.0
27.5°	2174.7	2152.0	2125.0	1925.9	1554.9	1169.3	739.7	310.2	739.7	1169.3	1554.9
30°	2139.7	2121.2	2101.2	1909.2	1545.2	1163.0	726.5	289.9	726.5	1163.0	1545.2
32.5°	2112.1	2090.4	2071.4	1883.4	1526.4	1149.0	710.4	271.9	710.4	1149.0	1526.4
35°	2093.7	2057.4	2027.4	1835.4	1481.4	1108.0	676.4	244.9	676.4	1108.0	1481.4
37.5°	2101.6	2041.3	1978.5	1769.2	1413.4	1043.9	632.8	221.8	632.8	1043.9	1413.4
40°	2099.6	2025.5	1941.7	1720.9	1363.2	996.3	602.3	208.3	602.3	996.3	1363.2
42.5°	2077.1	1992.5	1894.7	1665.4	1304.6	940.8	567.8	194.8	567.8	940.8	1304.6
45°	2031.4	1934.5	1819.4	1577.4	1208.4	847.8	512.6	177.3	512.6	847.8	1208.4
47.5°	1966.7	1867.3	1745.2	1491.3	1105.5	743.4	452.2	161.0	452.2	743.4	1105.5
50°	1908.9	1812.5	1692.5	1433.5	1035.7	672.4	412.2	152.0	412.2	672.4	1035.7
52.5°	1840.8	1750.2	1637.2	1376.2	967.4	603.3	373.1	143.0	373.1	603.3	967.4
55°	1721.9	1642.7	1543.9	1285.6	867.8	507.5	319.9	132.3	319.9	507.5	867.8
57.5°	1590.3	1523.0	1438.7	1189.2	774.4	425.4	274.1	122.7	274.1	425.4	774.4
60°	1495.8	1434.5	1358.2	1118.6	715.8	380.9	249.6	118.2	249.6	380.9	715.8
62.5°	1396.4	1339.9	1269.6	1042.1	657.3	340.1	225.8	111.5	225.8	340.1	657.3
65°	1235.3	1188.7	1129.9	925.3	575.1	289.3	196.7	104.1	196.7	289.3	575.1
67.5°	1035.6	1012.8	976.3	805.3	499.9	251.1	172.6	94.0	172.6	251.1	499.9
70°	875.9	880.0	867.5	725.5	454.1	232.4	159.8	87.2	159.8	232.4	454.1
72.5°	668.0	714.1	741.7	638.2	403.8	211.8	147.3	82.7	147.3	211.8	403.8
75°	315.9	405.3	525.4	497.9	322.7	178.3	125.7	73.2	125.7	178.3	322.7
77.5°	242.6	289.7	353.3	332.4	227.0	138.2	98.9	59.7	98.9	138.2	227.0
80°	197.3	198.9	201.4	184.5	148.2	113.2	81.9	50.7	81.9	113.2	148.2
82.5°	144.8	143.4	140.9	129.5	109.2	88.2	64.9	41.7	64.9	88.2	109.2
85°	47.2	55.4	65.4	67.2	61.0	52.9	39.1	25.3	39.1	52.9	61.0
87.5°	19.6	19.2	19.2	20.8	23.6	23.8	16.8	10.2	16.8	23.4	24.4
90°	41.5	39.5	39.5	37.5	31.6	23.7	13.8	5.9	13.8	21.7	35.6
92.5°	49.4	49.0	45.9	42.3	34.8	34.8	34.4	21.7	37.5	53.4	76.7
95°	45.5	45.5	53.4	67.2	98.8	100.8	67.2	61.3	87.0	122.5	154.2
97.5°	122.9	146.2	179.4	185.8	175.9	131.2	125.7	117.0	159.3	194.5	245.5
100°	227.3	256.9	280.6	233.2	183.8	181.8	170.0	166.0	211.5	245.1	294.5
102.5°	355.3	364.4	282.2	255.3	243.9	235.6	217.4	215.0	260.5	306.7	348.2
105°	385.4	345.9	347.8	347.8	339.9	324.1	290.5	288.5	339.9	393.3	444.7
107.5°	453.4	459.3	469.6	467.2	458.1	415.8	376.3	367.2	413.4	477.5	534.0
110°	543.5	549.4	553.4	549.4	535.6	482.2	434.8	421.0	462.5	529.7	590.9



TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	630.4	634.8	643.5	631.6	608.3	547.0	493.3	473.1	514.6	583.4	646.3
115°	768.8	768.8	770.8	764.8	717.4	654.2	583.0	553.4	588.9	652.2	721.4
117.5°	904.8	907.1	899.2	883.4	828.5	754.9	675.1	627.7	655.7	722.5	793.7
120°	990.1	994.1	986.2	962.5	909.1	826.1	735.2	679.8	701.6	766.8	838.0
122.5°	1078.7	1077.9	1068.4	1041.5	978.7	892.5	803.2	735.2	744.3	804.8	874.3
125°	1201.6	1199.6	1191.7	1160.1	1094.9	1005.9	901.2	818.2	806.3	857.7	928.9
127.5°	1318.6	1314.2	1302.0	1263.7	1196.9	1111.1	996.1	902.0	875.5	907.9	973.1
130°	1399.2	1393.3	1371.6	1330.1	1264.8	1183.8	1067.2	960.5	922.9	942.7	1000.0
132.5°	1476.7	1459.7	1441.1	1396.5	1336.0	1251.8	1133.6	1022.1	970.4	979.1	1023.7
135°	1575.1	1559.3	1535.6	1492.1	1434.8	1351.8	1233.2	1112.7	1041.5	1033.6	1059.3
137.5°	1661.7	1645.1	1618.2	1580.7	1522.9	1449.0	1335.2	1207.9	1118.2	1091.7	1101.6
140°	1715.4	1695.7	1672.0	1634.4	1583.0	1505.9	1395.3	1272.7	1172.0	1134.4	1128.5
142.5°	1759.7	1744.7	1719.4	1685.0	1639.9	1562.9	1455.4	1334.4	1227.3	1178.7	1164.8
145°	1826.1	1814.3	1786.6	1755.0	1717.4	1640.3	1541.5	1421.0	1314.2	1251.0	1221.4
147.5°	1882.2	1872.7	1851.0	1813.9	1782.2	1708.3	1618.2	1511.5	1402.0	1323.7	1285.4
150°	1917.0	1909.1	1887.4	1851.8	1820.2	1751.0	1664.1	1565.2	1460.5	1377.5	1328.1
152.5°	1950.2	1942.3	1917.4	1881.8	1855.0	1790.5	1711.5	1617.4	1511.1	1428.1	1377.1
155°	1994.1	1984.2	1960.5	1926.9	1903.2	1843.9	1770.8	1687.8	1596.9	1509.9	1452.6
157.5°	2028.9	2016.6	1994.5	1965.6	1940.3	1885.8	1822.2	1750.6	1671.2	1588.2	1529.7
160°	2049.4	2035.6	2011.9	1986.2	1962.5	1911.1	1853.8	1788.6	1715.4	1640.3	1577.1
162.5°	2063.7	2051.4	2022.9	2000.4	1979.9	1933.2	1879.1	1820.2	1755.0	1689.3	1630.8
165°	2079.1	2065.2	2035.6	2017.8	2000.0	1960.5	1913.1	1865.6	1810.3	1756.9	1709.5
167.5°	2080.3	2068.8	2039.2	2021.8	2008.7	1974.7	1936.4	1900.0	1856.9	1815.0	1775.5
170°	2077.1	2067.2	2037.6	2021.8	2011.9	1984.2	1950.6	1919.0	1885.4	1849.8	1818.2
172.5°	2066.0	2056.2	2028.1	2015.4	2010.3	1985.8	1958.5	1934.8	1906.0	1879.9	1854.6
175°	2037.6	2029.7	2006.0	1998.0	2000.0	1984.2	1964.5	1950.6	1932.8	1917.0	1903.2
177.5°	1996.1	1991.3	1973.9	1973.9	1980.3	1970.8	1964.5	1958.1	1950.2	1945.5	1940.7
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
2.5°	626.7	639.7	653.7	665.7	671.7	677.7	671.7	665.7	653.7	639.7	626.7
5°	758.0	826.2	902.5	967.9	1000.4	1032.9	1000.4	967.9	902.5	826.2	758.0
7.5°	1051.0	1248.4	1453.0	1622.8	1687.8	1752.9	1687.8	1622.8	1453.0	1248.4	1051.0
10°	1343.5	1597.4	1775.0	1917.0	1952.0	1987.0	1952.0	1917.0	1775.0	1597.4	1343.5
12.5°	1534.3	1798.3	1922.9	2025.3	2061.3	2097.4	2061.3	2025.3	1922.9	1798.3	1534.3
15°	1704.3	1975.8	2077.1	2163.1	2203.1	2243.2	2203.1	2163.1	2077.1	1975.8	1704.3
17.5°	1798.4	2063.1	2163.4	2244.1	2265.9	2287.6	2265.9	2244.1	2163.4	2063.1	1798.4
20°	1853.2	2103.4	2189.7	2257.9	2271.6	2285.4	2271.6	2257.9	2189.7	2103.4	1853.2
22.5°	1893.0	2126.6	2191.9	2244.6	2259.4	2274.1	2259.4	2244.6	2191.9	2126.6	1893.0
25°	1932.3	2145.6	2186.9	2220.3	2230.3	2240.3	2230.3	2220.3	2186.9	2145.6	1932.3
27.5°	1925.9	2125.0	2152.0	2174.7	2184.4	2194.2	2184.4	2174.7	2152.0	2125.0	1925.9
30°	1909.2	2101.2	2121.2	2139.7	2153.4	2167.2	2153.4	2139.7	2121.2	2101.2	1909.2
32.5°	1883.4	2071.4	2090.4	2112.1	2141.9	2171.7	2141.9	2112.1	2090.4	2071.4	1883.4
35°	1835.4	2027.4	2057.4	2093.7	2148.7	2203.8	2148.7	2093.7	2057.4	2027.4	1835.4
37.5°	1769.2	1978.5	2041.3	2101.6	2154.7	2207.7	2154.7	2101.6	2041.3	1978.5	1769.2
40°	1720.9	1941.7	2025.5	2099.6	2144.7	2189.7	2144.7	2099.6	2025.5	1941.7	1720.9
42.5°	1665.4	1894.7	1992.5	2077.1	2122.1	2167.2	2122.1	2077.1	1992.5	1894.7	1665.4
45°	1577.4	1819.4	1934.5	2031.4	2074.0	2116.5	2074.0	2031.4	1934.5	1819.4	1577.4
47.5°	1491.3	1745.2	1867.3	1966.7	1997.7	2028.7	1997.7	1966.7	1867.3	1745.2	1491.3
50°	1433.5	1692.5	1812.5	1908.9	1933.9	1958.9	1933.9	1908.9	1812.5	1692.5	1433.5
52.5°	1376.2	1637.2	1750.2	1840.8	1863.8	1886.8	1863.8	1840.8	1750.2	1637.2	1376.2
55°	1285.6	1543.9	1642.7	1721.9	1741.9	1761.9	1741.9	1721.9	1642.7	1543.9	1285.6
57.5°	1189.2	1438.7	1523.0	1590.3	1606.6	1622.8	1606.6	1590.3	1523.0	1438.7	1189.2
60°	1118.6	1358.2	1434.5	1495.8	1512.0	1528.3	1512.0	1495.8	1434.5	1358.2	1118.6
62.5°	1042.1	1269.6	1339.9	1396.4	1411.7	1427.0	1411.7	1396.4	1339.9	1269.6	1042.1
65°	925.3	1129.9	1188.7	1235.3	1245.3	1255.3	1245.3	1235.3	1188.7	1129.9	925.3
67.5°	805.3	976.3	1012.8	1035.6	1016.8	998.0	1016.8	1035.6	1012.8	976.3	805.3
70°	725.5	867.5	880.0	875.9	822.1	768.4	822.1	875.9	880.0	867.5	725.5
72.5°	638.2	741.7	714.1	668.0	566.2	464.4	566.2	668.0	714.1	741.7	638.2
75°	497.9	525.4	405.3	315.9	318.4	320.9	318.4	315.9	405.3	525.4	497.9
77.5°	332.4	353.3	289.7	242.6	244.9	247.1	244.9	242.6	289.7	353.3	332.4
80°	184.5	201.4	198.9	197.3	198.6	199.8	198.6	197.3	198.9	201.4	184.5
82.5°	129.5	140.9	143.4	144.8	143.0	141.3	143.0	144.8	143.4	140.9	129.5
85°	67.2	65.4	55.4	47.2	44.7	42.2	44.7	47.2	55.4	65.4	67.2
87.5°	22.4	23.1	25.9	27.5	29.0	28.3	29.0	27.5	25.9	23.1	22.4
90°	45.5	59.3	73.1	81.0	88.9	85.0	88.9	81.0	73.1	59.3	45.5
92.5°	91.3	114.6	131.6	145.9	152.2	151.4	152.2	145.9	131.6	114.6	91.3
95°	183.8	211.5	239.1	258.9	270.8	266.8	270.8	258.9	239.1	211.5	183.8
97.5°	283.4	320.6	351.4	370.0	381.8	389.7	381.8	370.0	351.4	320.6	283.4
100°	349.8	385.4	421.0	442.7	462.5	470.4	462.5	442.7	421.0	385.4	349.8
102.5°	403.6	450.2	488.9	512.3	528.9	536.8	528.9	512.3	488.9	450.2	403.6
105°	492.1	541.5	583.0	612.7	630.4	636.4	630.4	612.7	583.0	541.5	492.1
107.5°	580.6	631.6	670.0	702.8	724.5	737.2	724.5	702.8	670.0	631.6	580.6
110°	650.2	691.7	733.2	762.9	784.6	792.5	784.6	762.9	733.2	691.7	650.2



TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	708.7	754.9	796.5	826.1	851.0	862.1	851.0	826.1	796.5	754.9	708.7
115°	790.5	851.8	889.3	917.0	934.8	944.7	934.8	917.0	889.3	851.8	790.5
117.5°	858.5	922.5	963.6	985.0	993.3	1000.4	993.3	985.0	963.6	922.5	858.5
120°	901.2	960.5	1007.9	1035.6	1045.5	1049.4	1045.5	1035.6	1007.9	960.5	901.2
122.5°	940.7	996.8	1042.7	1076.7	1092.9	1096.9	1092.9	1076.7	1042.7	996.8	940.7
125°	996.1	1049.4	1096.9	1130.4	1148.2	1158.1	1148.2	1130.4	1096.9	1049.4	996.1
127.5°	1044.3	1102.0	1145.5	1175.9	1193.3	1201.2	1193.3	1175.9	1145.5	1102.0	1044.3
130°	1071.2	1130.4	1173.9	1207.5	1223.3	1231.2	1223.3	1207.5	1173.9	1130.4	1071.2
132.5°	1091.7	1154.2	1199.2	1229.7	1247.1	1255.0	1247.1	1229.7	1199.2	1154.2	1091.7
135°	1116.6	1181.8	1229.3	1258.9	1274.7	1282.6	1274.7	1258.9	1229.3	1181.8	1116.6
137.5°	1138.4	1197.6	1247.1	1278.3	1292.5	1297.6	1292.5	1278.3	1247.1	1197.6	1138.4
140°	1154.2	1205.5	1255.0	1284.6	1300.4	1302.4	1300.4	1284.6	1255.0	1205.5	1154.2
142.5°	1174.7	1215.0	1258.1	1287.8	1303.6	1307.1	1303.6	1287.8	1258.1	1215.0	1174.7
145°	1211.5	1235.2	1264.8	1292.5	1306.3	1310.3	1306.3	1292.5	1264.8	1235.2	1211.5
147.5°	1257.7	1265.2	1280.6	1298.8	1312.3	1315.0	1312.3	1298.8	1280.6	1265.2	1257.7
150°	1292.5	1290.5	1296.5	1308.3	1320.2	1318.2	1320.2	1308.3	1296.5	1290.5	1292.5
152.5°	1332.0	1320.6	1320.2	1325.7	1331.2	1330.8	1331.2	1325.7	1320.2	1320.6	1332.0
155°	1399.2	1377.5	1365.6	1361.7	1361.7	1359.7	1361.7	1361.7	1365.6	1377.5	1399.2
157.5°	1473.1	1442.7	1424.9	1415.4	1412.7	1408.3	1412.7	1415.4	1424.9	1442.7	1473.1
160°	1523.7	1490.1	1472.3	1456.5	1450.6	1444.7	1450.6	1456.5	1472.3	1490.1	1523.7
162.5°	1571.2	1539.1	1519.8	1505.6	1499.6	1490.5	1499.6	1505.6	1519.8	1539.1	1571.2
165°	1648.2	1614.6	1592.9	1581.0	1573.1	1565.2	1573.1	1581.0	1592.9	1614.6	1648.2
167.5°	1725.3	1688.6	1674.3	1660.9	1653.4	1639.1	1653.4	1660.9	1674.3	1688.6	1725.3
170°	1772.7	1739.2	1731.2	1719.4	1705.6	1689.7	1705.6	1719.4	1731.2	1739.2	1772.7
172.5°	1813.9	1791.3	1783.4	1771.6	1767.2	1754.6	1767.2	1771.6	1783.4	1791.3	1813.9
175°	1873.5	1855.8	1855.8	1853.8	1847.8	1836.0	1847.8	1853.8	1855.8	1855.8	1873.5
177.5°	1923.3	1913.9	1920.2	1920.2	1918.6	1907.5	1918.6	1920.2	1920.2	1913.9	1923.3
180°	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	585.4	585.4	585.4	585.4
2.5°	614.7	602.9	591.9	580.9
5°	698.0	643.6	606.1	568.5
7.5°	860.9	699.2	622.9	546.6
10°	1013.2	739.0	632.6	526.3
12.5°	1131.1	792.5	648.1	503.8
15°	1262.8	880.0	673.6	467.2
17.5°	1369.4	978.9	704.2	429.5
20°	1439.2	1047.9	725.2	402.5
22.5°	1490.9	1099.2	738.5	377.7
25°	1547.0	1156.4	749.9	343.4
27.5°	1554.9	1169.3	739.7	310.2
30°	1545.2	1163.0	726.5	289.9
32.5°	1526.4	1149.0	710.4	271.9
35°	1481.4	1108.0	676.4	244.9
37.5°	1413.4	1043.9	632.8	221.8
40°	1363.2	996.3	602.3	208.3
42.5°	1304.6	940.8	567.8	194.8
45°	1208.4	847.8	512.6	177.3
47.5°	1105.5	743.4	452.2	161.0
50°	1035.7	672.4	412.2	152.0
52.5°	967.4	603.3	373.1	143.0
55°	867.8	507.5	319.9	132.3
57.5°	774.4	425.4	274.1	122.7
60°	715.8	380.9	249.6	118.2
62.5°	657.3	340.1	225.8	111.5
65°	575.1	289.3	196.7	104.1
67.5°	499.9	251.1	172.6	94.0
70°	454.1	232.4	159.8	87.2
72.5°	403.8	211.8	147.3	82.7
75°	322.7	178.3	125.7	73.2
77.5°	227.0	138.2	98.9	59.7
80°	148.2	113.2	81.9	50.7
82.5°	109.2	88.2	64.9	41.7
85°	61.0	52.9	39.1	25.3
87.5°	24.4	23.4	16.8	10.2
90°	35.6	21.7	13.8	5.9
92.5°	76.7	53.4	37.5	21.7
95°	154.2	122.5	87.0	61.3
97.5°	245.5	194.5	159.3	117.0
100°	294.5	245.1	211.5	166.0
102.5°	348.2	306.7	260.5	215.0
105°	444.7	393.3	339.9	288.5
107.5°	534.0	477.5	413.4	367.2
110°	590.9	529.7	462.5	421.0



TEST NUMBER: P1436023

CATALOG NUMBER: SQ2W-FB-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	646.3	583.4	514.6	473.1
115°	721.4	652.2	588.9	553.4
117.5°	793.7	722.5	655.7	627.7
120°	838.0	766.8	701.6	679.8
122.5°	874.3	804.8	744.3	735.2
125°	928.9	857.7	806.3	818.2
127.5°	973.1	907.9	875.5	902.0
130°	1000.0	942.7	922.9	960.5
132.5°	1023.7	979.1	970.4	1022.1
135°	1059.3	1033.6	1041.5	1112.7
137.5°	1101.6	1091.7	1118.2	1207.9
140°	1128.5	1134.4	1172.0	1272.7
142.5°	1164.8	1178.7	1227.3	1334.4
145°	1221.4	1251.0	1314.2	1421.0
147.5°	1285.4	1323.7	1402.0	1511.5
150°	1328.1	1377.5	1460.5	1565.2
152.5°	1377.1	1428.1	1511.1	1617.4
155°	1452.6	1509.9	1596.9	1687.8
157.5°	1529.7	1588.2	1671.2	1750.6
160°	1577.1	1640.3	1715.4	1788.6
162.5°	1630.8	1689.3	1755.0	1820.2
165°	1709.5	1756.9	1810.3	1865.6
167.5°	1775.5	1815.0	1856.9	1900.0
170°	1818.2	1849.8	1885.4	1919.0
172.5°	1854.6	1879.9	1906.0	1934.8
175°	1903.2	1917.0	1932.8	1950.6
177.5°	1940.7	1945.5	1950.2	1958.1
180°	1956.5	1956.5	1956.5	1956.5



TEST NUMBER: P1436023  
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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	14.01	14.90	14.96	15.87	17.13	23.61	24.50	24.55	25.47	26.73
	3H	14.95	15.75	15.91	16.73	18.01	25.21	26.01	26.17	26.99	28.28
	4H	15.35	16.11	16.32	17.09	18.38	25.39	26.15	26.37	27.13	28.43
	6H	15.61	16.30	16.59	17.29	18.60	25.47	26.17	26.45	27.15	28.46
	8H	15.70	16.36	16.69	17.37	18.67	25.49	26.15	26.48	27.16	28.46
	12H	15.75	16.38	16.75	17.38	18.71	25.47	26.10	26.46	27.10	28.43
4H	2H	18.73	19.49	19.71	20.47	21.77	23.97	24.73	24.95	25.71	27.01
	3H	19.86	20.50	20.85	21.51	22.82	25.87	26.50	26.86	27.51	28.82
	4H	20.15	20.72	21.15	21.73	23.06	26.09	26.67	27.09	27.67	29.00
	6H	20.28	20.78	21.29	21.81	23.14	26.22	26.72	27.23	27.75	29.08
	8H	20.32	20.79	21.34	21.81	23.15	26.27	26.73	27.28	27.75	29.10
	12H	20.33	20.75	21.36	21.78	23.13	26.25	26.67	27.28	27.71	29.06
8H	4H	21.34	21.81	22.36	22.83	24.17	26.18	26.65	27.19	27.67	29.01
	6H	21.60	21.98	22.64	23.05	24.39	26.38	26.76	27.42	27.83	29.17
	8H	21.70	22.04	22.75	23.09	24.45	26.47	26.81	27.52	27.86	29.22
	12H	21.74	22.04	22.79	23.08	24.49	26.48	26.77	27.53	27.82	29.22
12H	4H	21.37	21.79	22.40	22.82	24.17	26.14	26.55	27.17	27.59	28.94
	6H	21.71	22.05	22.76	23.09	24.46	26.36	26.70	27.41	27.75	29.11
	8H	21.85	22.14	22.90	23.19	24.59	26.47	26.76	27.52	27.80	29.21