

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: P1428313

Luminaire Tested: SQ2W-PR1-K-150U-100D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428313  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-150U-100D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE 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**

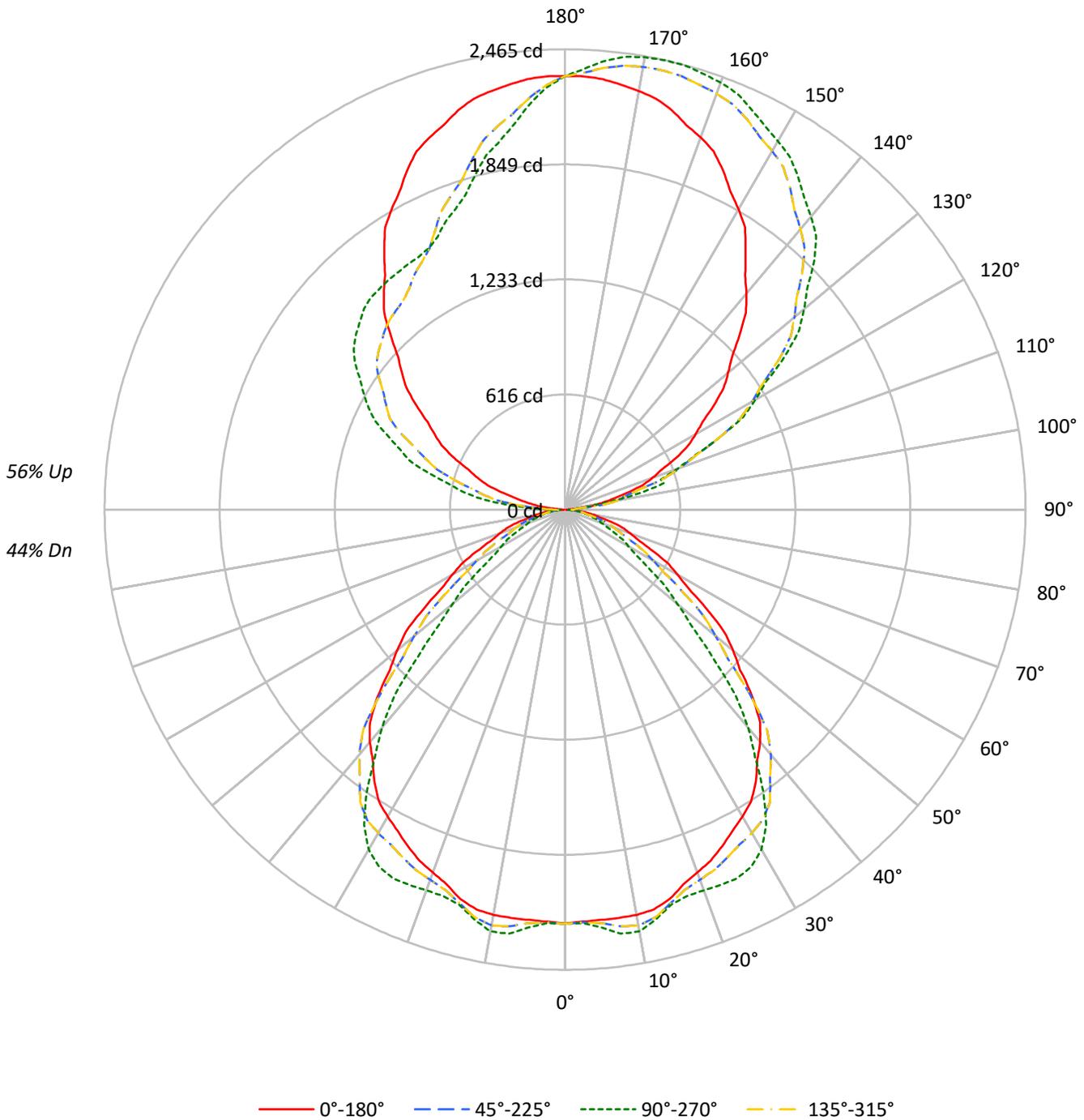
Lumens per Lamp: N/A  
Luminaire Lumens: 12120.4 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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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### 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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	81	72	65	60	74	67	61	56	56	51	48	46	43	40	37	34	33	28
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29	25
5	69	57	50	44	63	53	46	41	45	40	36	37	33	30	30	27	25	22
6	63	52	44	38	58	48	41	36	40	35	31	34	30	27	27	24	22	19
7	58	47	39	34	54	43	36	32	37	31	28	31	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18	16
9	51	39	31	26	46	36	29	25	31	26	22	26	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	20	17	15	13

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

	0°	90°	180°	270°
0°	35801	35801	35801	35801
5°	35755	36414	35755	36414
10°	36132	37614	36132	37614
15°	36120	36611	36120	36611
20°	35535	37284	35535	37284
25°	35435	38818	35435	38818
30°	35398	39190	35398	39190
35°	35062	36487	35062	36487
40°	34254	32110	34254	32110
45°	32412	25393	32412	25393
50°	29466	19700	29466	19700
55°	25897	15333	25897	15333
60°	22407	12626	22407	12626
65°	19342	11052	19342	11052
70°	17391	9819	17391	9819
75°	15932	9027	15932	9027
80°	13872	8824	13872	8824
85°	10041	4187	10041	4187

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 34798 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	1.8
10°-20°	619.9	5.1
20°-30°	958.3	7.9
30°-40°	1152.4	9.5
40°-50°	1034.9	8.5
50°-60°	693.4	5.7
60°-70°	403.4	3.3
70°-80°	207.2	1.7
80°-90°	60.7	0.5
90°-100°	184.7	1.5
100°-110°	538.6	4.4
110°-120°	879.0	7.3
120°-130°	1115.4	9.2
130°-140°	1193.5	9.8
140°-150°	1114.5	9.2
150°-160°	917.1	7.6
160°-170°	615.0	5.1
170°-180°	218.4	1.8
0°-30°	1792.3	14.8
0°-40°	2944.7	24.3
0°-60°	4673.0	38.6
0°-90°	5344.3	44.1
90°-120°	1602.3	13.2
90°-150°	5025.7	41.5
90°-180°	6776.0	55.9
0°-180°	12120.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2217	2217	2217	2217	2217	
5°	2206	2247	2206	2247	2206	211
15°	2161	2190	2161	2190	2161	607
25°	1989	2179	1989	2179	1989	917
35°	1779	1851	1779	1851	1779	1109
45°	1420	1112	1420	1112	1420	1086
55°	920	545	920	545	920	827
65°	506	289	506	289	506	512
75°	255	145	255	145	255	271
85°	54	23	54	23	54	67
90°	7	52	7	101	7	8
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°	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4
2.5°	2208.4	2220.4	2232.5	2227.1	2215.8	2210.6	2211.4	2212.6	2215.0	2217.4	2215.0
5°	2206.1	2223.2	2240.3	2236.3	2225.2	2220.7	2222.7	2226.7	2236.8	2246.8	2236.8
7.5°	2205.7	2230.0	2254.3	2256.2	2250.5	2250.6	2256.5	2264.1	2277.4	2290.7	2277.4
10°	2203.9	2233.0	2262.1	2266.4	2262.4	2260.9	2261.9	2266.1	2280.2	2294.3	2280.2
12.5°	2193.0	2227.0	2260.9	2257.4	2241.3	2232.5	2231.1	2232.0	2239.6	2247.3	2239.6
15°	2160.9	2201.1	2241.3	2225.0	2189.8	2173.7	2176.7	2180.3	2185.3	2190.3	2185.3
17.5°	2104.4	2146.4	2188.4	2173.7	2140.2	2128.8	2139.7	2150.3	2160.1	2170.0	2160.1
20°	2068.2	2109.4	2150.6	2140.6	2113.4	2106.9	2121.0	2135.8	2152.9	2170.0	2152.9
22.5°	2035.7	2076.9	2118.1	2111.6	2089.3	2088.0	2107.7	2128.4	2151.9	2175.4	2151.9
25°	1989.1	2025.3	2061.5	2062.2	2051.2	2062.2	2095.4	2126.8	2152.9	2179.0	2152.9
27.5°	1940.3	1961.6	1982.9	1997.0	2008.6	2036.8	2081.7	2119.8	2138.1	2156.4	2138.1
30°	1898.7	1912.8	1926.8	1953.0	1983.1	2017.8	2056.9	2088.1	2095.1	2102.1	2095.1
32.5°	1853.5	1861.9	1870.4	1907.2	1953.4	1986.8	2007.5	2020.8	2011.7	2002.7	2011.7
35°	1778.9	1785.9	1793.0	1839.9	1900.2	1922.3	1906.2	1889.4	1870.3	1851.2	1870.3
37.5°	1690.3	1704.8	1719.2	1757.5	1803.7	1803.3	1756.3	1715.6	1693.7	1671.8	1693.7
40°	1625.2	1649.3	1673.4	1699.0	1725.2	1703.1	1632.7	1573.7	1548.6	1523.5	1548.6
42.5°	1545.6	1584.2	1622.8	1628.5	1623.3	1575.9	1486.3	1411.4	1380.6	1349.9	1380.6
45°	1419.5	1471.8	1524.0	1494.1	1436.8	1359.5	1262.0	1180.4	1146.3	1112.1	1146.3
47.5°	1270.8	1324.4	1378.1	1321.7	1228.7	1138.7	1051.7	978.4	946.5	914.5	946.5
50°	1173.1	1216.3	1259.5	1195.7	1096.3	1005.9	924.5	854.7	819.5	784.3	819.5
52.5°	1073.7	1104.8	1136.0	1072.8	978.1	890.1	808.8	739.7	707.8	675.9	707.8
55°	920.0	936.0	952.1	893.6	810.2	729.8	652.5	589.0	566.9	544.7	566.9
57.5°	778.9	789.2	799.4	744.0	666.6	595.1	529.4	476.0	459.8	443.5	459.8
60°	693.9	701.0	708.0	651.7	574.4	510.1	458.9	417.2	404.1	391.0	404.1
62.5°	616.2	621.6	627.0	572.8	498.6	441.2	400.4	367.3	357.5	347.6	357.5
65°	506.3	511.3	516.4	470.2	406.9	359.7	328.5	303.4	296.4	289.3	296.4
67.5°	419.1	421.7	424.3	386.2	334.6	296.5	272.0	252.0	245.3	238.7	245.3
70°	368.4	369.4	370.4	336.8	291.6	257.9	235.8	218.0	213.0	208.0	213.0
72.5°	323.2	321.8	320.4	290.4	250.8	222.0	203.9	189.5	186.1	182.6	186.1
75°	255.4	252.4	249.4	224.5	192.4	170.3	158.2	148.7	146.7	144.7	146.7
77.5°	190.8	187.6	184.3	163.7	137.1	121.9	117.8	114.8	114.8	114.8	114.8
80°	149.2	145.2	141.1	125.1	105.0	94.9	94.9	94.9	94.9	94.9	94.9
82.5°	111.2	105.6	100.0	90.1	78.9	73.2	73.2	73.0	72.2	71.4	72.2
85°	54.2	49.2	44.2	42.9	42.9	39.9	33.9	28.6	25.6	22.6	25.6
87.5°	15.9	17.7	20.1	19.0	16.3	14.8	14.8	15.3	15.7	15.7	15.7
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°	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4
2.5°	2212.6	2211.4	2210.6	2215.8	2227.1	2232.5	2220.4	2208.4	2220.4	2232.5	2227.1
5°	2226.7	2222.7	2220.7	2225.2	2236.3	2240.3	2223.2	2206.1	2223.2	2240.3	2236.3
7.5°	2264.1	2256.5	2250.6	2250.5	2256.2	2254.3	2230.0	2205.7	2230.0	2254.3	2256.2
10°	2266.1	2261.9	2260.9	2262.4	2266.4	2262.1	2233.0	2203.9	2233.0	2262.1	2266.4
12.5°	2232.0	2231.1	2232.5	2241.3	2257.4	2260.9	2227.0	2193.0	2227.0	2260.9	2257.4
15°	2180.3	2176.7	2173.7	2189.8	2225.0	2241.3	2201.1	2160.9	2201.1	2241.3	2225.0
17.5°	2150.3	2139.7	2128.8	2140.2	2173.7	2188.4	2146.4	2104.4	2146.4	2188.4	2173.7
20°	2135.8	2121.0	2106.9	2113.4	2140.6	2150.6	2109.4	2068.2	2109.4	2150.6	2140.6
22.5°	2128.4	2107.7	2088.0	2089.3	2111.6	2118.1	2076.9	2035.7	2076.9	2118.1	2111.6
25°	2126.8	2095.4	2062.2	2051.2	2062.2	2061.5	2025.3	1989.1	2025.3	2061.5	2062.2
27.5°	2119.8	2081.7	2036.8	2008.6	1997.0	1982.9	1961.6	1940.3	1961.6	1982.9	1997.0
30°	2088.1	2056.9	2017.8	1983.1	1953.0	1926.8	1912.8	1898.7	1912.8	1926.8	1953.0
32.5°	2020.8	2007.5	1986.8	1953.4	1907.2	1870.4	1861.9	1853.5	1861.9	1870.4	1907.2
35°	1889.4	1906.2	1922.3	1900.2	1839.9	1793.0	1785.9	1778.9	1785.9	1793.0	1839.9
37.5°	1715.6	1756.3	1803.3	1803.7	1757.5	1719.2	1704.8	1690.3	1704.8	1719.2	1757.5
40°	1573.7	1632.7	1703.1	1725.2	1699.0	1673.4	1649.3	1625.2	1649.3	1673.4	1699.0
42.5°	1411.4	1486.3	1575.9	1623.3	1628.5	1622.8	1584.2	1545.6	1584.2	1622.8	1628.5
45°	1180.4	1262.0	1359.5	1436.8	1494.1	1524.0	1471.8	1419.5	1471.8	1524.0	1494.1
47.5°	978.4	1051.7	1138.7	1228.7	1321.7	1378.1	1324.4	1270.8	1324.4	1378.1	1321.7
50°	854.7	924.5	1005.9	1096.3	1195.7	1259.5	1216.3	1173.1	1216.3	1259.5	1195.7
52.5°	739.7	808.8	890.1	978.1	1072.8	1136.0	1104.8	1073.7	1104.8	1136.0	1072.8
55°	589.0	652.5	729.8	810.2	893.6	952.1	936.0	920.0	936.0	952.1	893.6
57.5°	476.0	529.4	595.1	666.6	744.0	799.4	789.2	778.9	789.2	799.4	744.0
60°	417.2	458.9	510.1	574.4	651.7	708.0	701.0	693.9	701.0	708.0	651.7
62.5°	367.3	400.4	441.2	498.6	572.8	627.0	621.6	616.2	621.6	627.0	572.8
65°	303.4	328.5	359.7	406.9	470.2	516.4	511.3	506.3	511.3	516.4	470.2
67.5°	252.0	272.0	296.5	334.6	386.2	424.3	421.7	419.1	421.7	424.3	386.2
70°	218.0	235.8	257.9	291.6	336.8	370.4	369.4	368.4	369.4	370.4	336.8
72.5°	189.5	203.9	222.0	250.8	290.4	320.4	321.8	323.2	321.8	320.4	290.4
75°	148.7	158.2	170.3	192.4	224.5	249.4	252.4	255.4	252.4	249.4	224.5
77.5°	114.8	117.8	121.9	137.1	163.7	184.3	187.6	190.8	187.6	184.3	163.7
80°	94.9	94.9	94.9	105.0	125.1	141.1	145.2	149.2	145.2	141.1	125.1
82.5°	73.0	73.2	73.2	78.9	90.1	100.0	105.6	111.2	105.6	100.0	90.1
85°	28.6	33.9	39.9	42.9	42.9	44.2	49.2	54.2	49.2	44.2	42.9
87.5°	15.3	14.8	14.8	16.3	19.0	20.1	17.7	15.9	17.7	19.6	19.9
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: P1428313

CATALOG NUMBER: SQ2W-PR1-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



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4	2217.4
2.5°	2215.8	2210.6	2211.4	2212.6	2215.0	2217.4	2215.0	2212.6	2211.4	2210.6	2215.8
5°	2225.2	2220.7	2222.7	2226.7	2236.8	2246.8	2236.8	2226.7	2222.7	2220.7	2225.2
7.5°	2250.5	2250.6	2256.5	2264.1	2277.4	2290.7	2277.4	2264.1	2256.5	2250.6	2250.5
10°	2262.4	2260.9	2261.9	2266.1	2280.2	2294.3	2280.2	2266.1	2261.9	2260.9	2262.4
12.5°	2241.3	2232.5	2231.1	2232.0	2239.6	2247.3	2239.6	2232.0	2231.1	2232.5	2241.3
15°	2189.8	2173.7	2176.7	2180.3	2185.3	2190.3	2185.3	2180.3	2176.7	2173.7	2189.8
17.5°	2140.2	2128.8	2139.7	2150.3	2160.1	2170.0	2160.1	2150.3	2139.7	2128.8	2140.2
20°	2113.4	2106.9	2121.0	2135.8	2152.9	2170.0	2152.9	2135.8	2121.0	2106.9	2113.4
22.5°	2089.3	2088.0	2107.7	2128.4	2151.9	2175.4	2151.9	2128.4	2107.7	2088.0	2089.3
25°	2051.2	2062.2	2095.4	2126.8	2152.9	2179.0	2152.9	2126.8	2095.4	2062.2	2051.2
27.5°	2008.6	2036.8	2081.7	2119.8	2138.1	2156.4	2138.1	2119.8	2081.7	2036.8	2008.6
30°	1983.1	2017.8	2056.9	2088.1	2095.1	2102.1	2095.1	2088.1	2056.9	2017.8	1983.1
32.5°	1953.4	1986.8	2007.5	2020.8	2011.7	2002.7	2011.7	2020.8	2007.5	1986.8	1953.4
35°	1900.2	1922.3	1906.2	1889.4	1870.3	1851.2	1870.3	1889.4	1906.2	1922.3	1900.2
37.5°	1803.7	1803.3	1756.3	1715.6	1693.7	1671.8	1693.7	1715.6	1756.3	1803.3	1803.7
40°	1725.2	1703.1	1632.7	1573.7	1548.6	1523.5	1548.6	1573.7	1632.7	1703.1	1725.2
42.5°	1623.3	1575.9	1486.3	1411.4	1380.6	1349.9	1380.6	1411.4	1486.3	1575.9	1623.3
45°	1436.8	1359.5	1262.0	1180.4	1146.3	1112.1	1146.3	1180.4	1262.0	1359.5	1436.8
47.5°	1228.7	1138.7	1051.7	978.4	946.5	914.5	946.5	978.4	1051.7	1138.7	1228.7
50°	1096.3	1005.9	924.5	854.7	819.5	784.3	819.5	854.7	924.5	1005.9	1096.3
52.5°	978.1	890.1	808.8	739.7	707.8	675.9	707.8	739.7	808.8	890.1	978.1
55°	810.2	729.8	652.5	589.0	566.9	544.7	566.9	589.0	652.5	729.8	810.2
57.5°	666.6	595.1	529.4	476.0	459.8	443.5	459.8	476.0	529.4	595.1	666.6
60°	574.4	510.1	458.9	417.2	404.1	391.0	404.1	417.2	458.9	510.1	574.4
62.5°	498.6	441.2	400.4	367.3	357.5	347.6	357.5	367.3	400.4	441.2	498.6
65°	406.9	359.7	328.5	303.4	296.4	289.3	296.4	303.4	328.5	359.7	406.9
67.5°	334.6	296.5	272.0	252.0	245.3	238.7	245.3	252.0	272.0	296.5	334.6
70°	291.6	257.9	235.8	218.0	213.0	208.0	213.0	218.0	235.8	257.9	291.6
72.5°	250.8	222.0	203.9	189.5	186.1	182.6	186.1	189.5	203.9	222.0	250.8
75°	192.4	170.3	158.2	148.7	146.7	144.7	146.7	148.7	158.2	170.3	192.4
77.5°	137.1	121.9	117.8	114.8	114.8	114.8	114.8	114.8	117.8	121.9	137.1
80°	105.0	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	105.0
82.5°	78.9	73.2	73.2	73.0	72.2	71.4	72.2	73.0	73.2	73.2	78.9
85°	42.9	39.9	33.9	28.6	25.6	22.6	25.6	28.6	33.9	39.9	42.9
87.5°	18.2	19.5	22.8	24.6	26.5	25.6	26.5	24.6	22.8	19.5	18.2
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: P1428313

CATALOG NUMBER: SQ2W-PR1-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: P1428313

CATALOG NUMBER: SQ2W-PR1-K-150U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2217.4	2217.4	2217.4	2217.4
2.5°	2227.1	2232.5	2220.4	2208.4
5°	2236.3	2240.3	2223.2	2206.1
7.5°	2256.2	2254.3	2230.0	2205.7
10°	2266.4	2262.1	2233.0	2203.9
12.5°	2257.4	2260.9	2227.0	2193.0
15°	2225.0	2241.3	2201.1	2160.9
17.5°	2173.7	2188.4	2146.4	2104.4
20°	2140.6	2150.6	2109.4	2068.2
22.5°	2111.6	2118.1	2076.9	2035.7
25°	2062.2	2061.5	2025.3	1989.1
27.5°	1997.0	1982.9	1961.6	1940.3
30°	1953.0	1926.8	1912.8	1898.7
32.5°	1907.2	1870.4	1861.9	1853.5
35°	1839.9	1793.0	1785.9	1778.9
37.5°	1757.5	1719.2	1704.8	1690.3
40°	1699.0	1673.4	1649.3	1625.2
42.5°	1628.5	1622.8	1584.2	1545.6
45°	1494.1	1524.0	1471.8	1419.5
47.5°	1321.7	1378.1	1324.4	1270.8
50°	1195.7	1259.5	1216.3	1173.1
52.5°	1072.8	1136.0	1104.8	1073.7
55°	893.6	952.1	936.0	920.0
57.5°	744.0	799.4	789.2	778.9
60°	651.7	708.0	701.0	693.9
62.5°	572.8	627.0	621.6	616.2
65°	470.2	516.4	511.3	506.3
67.5°	386.2	424.3	421.7	419.1
70°	336.8	370.4	369.4	368.4
72.5°	290.4	320.4	321.8	323.2
75°	224.5	249.4	252.4	255.4
77.5°	163.7	184.3	187.6	190.8
80°	125.1	141.1	145.2	149.2
82.5°	90.1	100.0	105.6	111.2
85°	42.9	44.2	49.2	54.2
87.5°	19.9	19.6	17.7	15.9
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



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**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: P1428313  
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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	18.52	19.30	19.54	20.32	21.67	14.89	15.67	15.90	16.69	18.04
	3H	19.72	20.42	20.75	21.44	22.82	16.05	16.74	17.07	17.77	19.14
	4H	20.20	20.86	21.24	21.89	23.27	16.51	17.16	17.54	18.19	19.58
	6H	20.50	21.10	21.54	22.13	23.53	16.84	17.45	17.89	18.48	19.88
	8H	20.60	21.17	21.65	22.22	23.61	16.98	17.55	18.03	18.60	19.99
	12H	20.63	21.18	21.69	22.22	23.64	17.01	17.55	18.06	18.59	20.01
4H	2H	18.61	19.27	19.66	20.30	21.68	15.59	16.25	16.64	17.28	18.66
	3H	20.07	20.61	21.12	21.67	23.07	16.94	17.48	17.99	18.54	19.94
	4H	20.69	21.19	21.75	22.24	23.66	17.48	17.98	18.54	19.03	20.45
	6H	21.12	21.55	22.19	22.62	24.03	17.91	18.34	18.98	19.41	20.82
	8H	21.28	21.68	22.34	22.74	24.17	18.09	18.49	19.16	19.55	20.98
	12H	21.34	21.70	22.42	22.78	24.21	18.13	18.49	19.22	19.57	21.01
8H	4H	20.71	21.11	21.78	22.18	23.61	17.80	18.20	18.87	19.27	20.70
	6H	21.24	21.57	22.33	22.68	24.10	18.34	18.67	19.43	19.78	21.20
	8H	21.48	21.76	22.57	22.85	24.30	18.60	18.89	19.70	19.98	21.43
	12H	21.59	21.85	22.69	22.93	24.42	18.69	18.95	19.79	20.03	21.52
12H	4H	20.67	21.03	21.75	22.11	23.54	17.82	18.18	18.90	19.26	20.69
	6H	21.23	21.52	22.33	22.61	24.06	18.41	18.70	19.51	19.79	21.24
	8H	21.48	21.73	22.58	22.82	24.31	18.70	18.95	19.80	20.04	21.52