

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: P1428461

Luminaire Tested: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428461  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

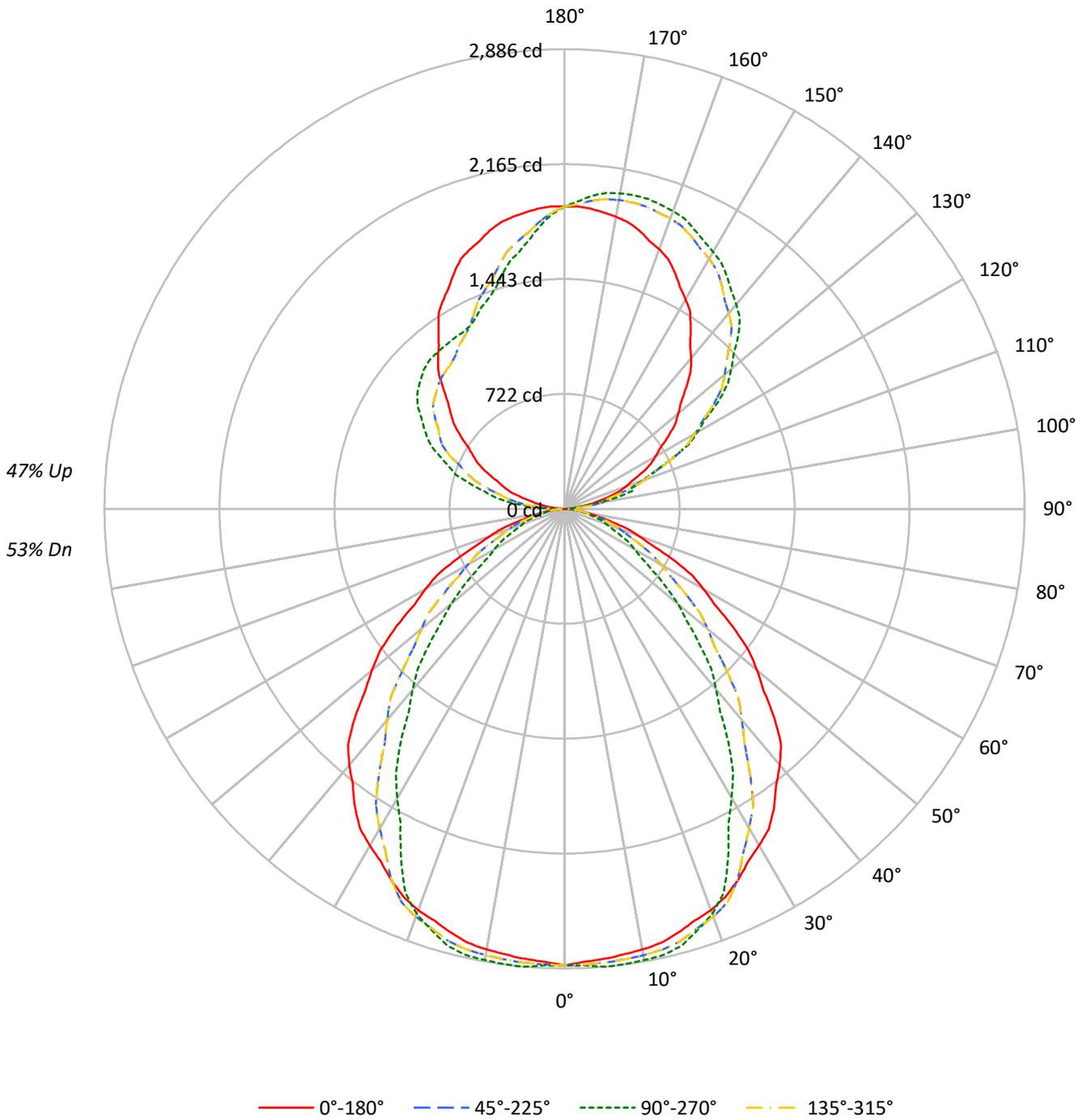
Lumens per Lamp: N/A  
Luminaire Lumens: 11912.2 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

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CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	69	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	47	45	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	39	36	33	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	24	21
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21	19
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	26	22	27	23	20	23	20	18	16

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

	0°	90°	180°	270°
0°	46291	46291	46291	46291
5°	45982	46777	45982	46777
10°	46066	47184	46066	47184
15°	46052	47468	46052	47468
20°	46071	46540	46071	46540
25°	45823	43245	45823	43245
30°	45510	39097	45510	39097
35°	45156	35307	45156	35307
40°	44256	31193	44256	31193
45°	42522	27247	42522	27247
50°	39573	23320	39573	23320
55°	36202	18908	36202	18908
60°	32449	16313	32449	16313
65°	28374	14498	28374	14498
70°	23202	13147	23202	13147
75°	18053	12096	18053	12096
80°	13454	10665	13454	10665
85°	9114	6076	9114	6076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 42522 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.0	2.3
10°-20°	791.0	6.6
20°-30°	1164.1	9.8
30°-40°	1272.8	10.7
40°-50°	1141.8	9.6
50°-60°	851.7	7.2
60°-70°	538.3	4.5
70°-80°	266.7	2.2
80°-90°	70.3	0.6
90°-100°	151.1	1.3
100°-110°	440.5	3.7
110°-120°	719.0	6.0
120°-130°	912.3	7.7
130°-140°	976.2	8.2
140°-150°	911.5	7.7
150°-160°	750.1	6.3
160°-170°	503.1	4.2
170°-180°	178.6	1.5
0°-30°	2228.2	18.7
0°-40°	3501.0	29.4
0°-60°	5494.5	46.1
0°-90°	6369.8	53.5
90°-120°	1310.6	11.0
90°-150°	4110.6	34.5
90°-180°	5542.0	46.5
0°-180°	11912.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2867	2867	2867	2867	2867	
5°	2837	2886	2837	2886	2837	270
15°	2755	2840	2755	2840	2755	778
25°	2572	2428	2572	2428	2572	1185
35°	2291	1791	2291	1791	2291	1429
45°	1862	1193	1862	1193	1862	1428
55°	1286	672	1286	672	1286	1148
65°	743	380	743	380	743	736
75°	289	194	289	194	289	319
85°	49	33	49	33	49	62
90°	6	42	6	82	6	6
95°	59	44	59	259	59	72
105°	280	449	280	617	280	298
115°	537	744	537	916	537	529
125°	794	1179	794	1124	794	710
135°	1080	1544	1080	1244	1080	834
145°	1379	1779	1379	1271	1379	863
155°	1637	1933	1637	1319	1637	753
165°	1810	2015	1810	1519	1810	510
175°	1892	1973	1892	1781	1892	180
180°	1898	1898	1898	1898	1898	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2847.4	2863.9	2880.5	2876.6	2865.9	2861.0	2862.0	2863.5	2866.4	2869.3	2866.4
5°	2837.1	2857.7	2878.3	2875.3	2864.4	2859.5	2860.7	2864.4	2875.3	2886.2	2875.3
7.5°	2822.9	2843.7	2864.6	2863.6	2855.4	2853.3	2857.5	2863.2	2873.9	2884.6	2873.9
10°	2809.8	2831.6	2853.5	2853.5	2846.2	2845.6	2851.6	2858.6	2868.3	2878.0	2868.3
12.5°	2792.3	2815.1	2837.9	2839.6	2834.3	2835.1	2842.2	2849.9	2859.6	2869.3	2859.6
15°	2755.1	2779.4	2803.7	2808.9	2807.6	2811.3	2819.8	2827.7	2833.7	2839.8	2833.7
17.5°	2712.0	2736.3	2760.6	2765.3	2763.6	2763.9	2766.1	2768.4	2771.4	2774.3	2771.4
20°	2681.4	2705.7	2730.0	2733.3	2729.7	2723.6	2715.1	2708.7	2708.7	2708.7	2708.7
22.5°	2637.7	2663.9	2690.2	2690.3	2681.8	2666.1	2643.0	2623.8	2616.0	2608.2	2616.0
25°	2572.2	2597.7	2623.2	2611.3	2587.1	2551.3	2503.9	2463.9	2445.7	2427.5	2445.7
27.5°	2495.7	2516.4	2537.0	2506.1	2458.1	2400.4	2333.2	2276.4	2251.2	2226.0	2251.2
30°	2441.1	2456.9	2472.7	2423.8	2353.5	2281.2	2207.2	2145.6	2121.4	2097.1	2121.4
32.5°	2384.3	2390.4	2396.5	2332.1	2244.2	2161.8	2084.9	2020.6	1994.4	1968.2	1994.4
35°	2291.0	2280.0	2269.1	2183.5	2073.1	1979.1	1901.4	1837.4	1814.3	1791.3	1814.3
37.5°	2180.6	2148.1	2115.6	2019.2	1901.5	1801.9	1720.6	1653.3	1627.8	1602.3	1627.8
40°	2099.8	2053.7	2007.6	1904.1	1781.5	1679.6	1598.3	1530.9	1505.5	1480.0	1505.5
42.5°	2010.2	1952.5	1894.7	1788.3	1665.8	1563.8	1482.5	1414.9	1388.5	1362.0	1388.5
45°	1862.3	1794.3	1726.3	1615.6	1490.6	1388.6	1309.8	1244.2	1218.7	1193.3	1218.7
47.5°	1695.7	1628.2	1560.7	1450.3	1325.5	1224.9	1148.5	1085.7	1063.8	1042.0	1063.8
50°	1575.5	1510.0	1444.5	1338.9	1220.0	1122.3	1045.8	981.8	955.1	928.4	955.1
52.5°	1453.2	1394.5	1335.7	1234.0	1118.0	1020.8	942.4	874.5	838.1	801.7	838.1
55°	1286.1	1230.3	1174.5	1078.6	969.4	871.1	783.7	713.0	692.4	671.7	692.4
57.5°	1114.1	1065.8	1017.5	931.3	832.5	743.4	664.1	600.3	583.3	566.3	583.3
60°	1004.9	962.4	919.9	837.4	741.5	660.2	593.4	539.1	522.1	505.2	522.1
62.5°	900.0	862.4	824.8	745.6	652.7	579.6	526.5	483.1	469.0	454.9	469.0
65°	742.7	714.8	686.9	621.7	544.0	483.3	439.6	403.8	391.7	379.5	391.7
67.5°	589.8	574.3	558.7	509.9	449.9	400.8	362.4	331.7	323.7	315.7	323.7
70°	491.5	486.6	481.8	441.4	389.3	347.4	315.8	290.7	284.6	278.5	284.6
72.5°	406.3	408.3	410.2	376.6	331.2	296.2	271.4	251.8	247.7	243.6	247.7
75°	289.4	299.1	308.9	286.7	253.9	229.1	212.1	198.7	196.3	193.9	196.3
77.5°	197.1	211.7	226.3	211.9	187.9	169.5	156.9	147.0	145.0	143.1	145.0
80°	144.7	159.3	173.8	163.8	145.6	131.7	122.0	114.7	114.7	114.7	114.7
82.5°	101.0	112.7	124.3	117.2	103.9	94.8	89.9	86.3	86.3	86.3	86.3
85°	49.2	55.2	61.3	59.2	54.3	48.2	41.0	35.2	34.0	32.8	34.0
87.5°	14.3	18.7	23.5	22.2	18.5	15.9	15.0	14.6	15.0	15.0	15.0
90°	5.8	13.4	23.0	30.7	36.4	38.3	38.3	40.3	42.2	42.2	42.2
92.5°	21.1	33.4	33.7	33.7	41.0	44.5	47.6	47.9	49.9	49.9	49.9
95°	59.4	65.2	97.8	95.9	65.2	51.8	44.1	44.1	44.1	44.1	44.1
97.5°	113.5	121.9	127.3	170.6	180.2	174.1	141.9	119.3	106.6	100.9	106.6
100°	161.1	164.9	176.4	178.3	226.2	272.3	249.3	220.5	210.9	205.2	210.9
102.5°	208.6	210.9	228.5	236.6	247.7	273.8	353.6	344.7	338.2	337.1	338.2
105°	279.9	281.9	314.4	329.8	337.5	337.5	335.5	373.9	435.2	448.7	435.2
107.5°	356.2	365.1	403.4	444.4	453.3	455.6	445.6	439.8	437.5	439.1	437.5
110°	408.4	421.8	467.8	519.6	533.0	536.9	533.0	527.3	523.4	523.4	523.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	459.0	478.6	530.7	590.2	612.8	624.3	615.9	611.6	607.8	610.9	607.8
115°	536.9	565.6	634.6	696.0	742.0	747.8	745.9	745.9	743.9	743.9	743.9
117.5°	609.0	655.0	732.4	803.8	857.1	872.4	880.1	877.8	875.5	879.3	875.5
120°	659.6	713.3	801.5	882.0	933.8	956.8	964.4	960.6	964.4	960.6	964.4
122.5°	713.3	779.2	865.9	949.5	1010.5	1036.5	1045.7	1046.5	1047.3	1045.0	1047.3
125°	793.8	874.3	975.9	1062.2	1125.5	1156.2	1163.8	1165.8	1169.6	1179.2	1169.6
127.5°	875.1	966.4	1077.9	1161.2	1226.0	1263.2	1275.0	1279.3	1287.3	1291.5	1287.3
130°	931.8	1035.4	1148.5	1227.1	1290.4	1330.7	1351.7	1357.5	1367.1	1365.2	1367.1
132.5°	991.7	1099.8	1214.5	1296.1	1354.8	1398.1	1416.2	1432.7	1436.1	1438.8	1436.1
135°	1079.5	1196.4	1311.5	1392.0	1447.6	1489.8	1512.8	1528.1	1537.7	1543.5	1537.7
137.5°	1171.9	1295.4	1405.8	1477.5	1533.5	1569.9	1596.0	1612.1	1622.1	1626.7	1622.1
140°	1234.8	1353.7	1461.0	1535.8	1585.7	1622.1	1645.1	1664.3	1675.8	1675.8	1675.8
142.5°	1294.6	1411.9	1516.3	1591.0	1634.7	1668.1	1692.6	1707.2	1720.3	1720.3	1720.3
145°	1378.6	1495.5	1591.4	1666.2	1702.6	1733.3	1760.1	1771.6	1779.3	1779.3	1779.3
147.5°	1466.4	1569.9	1657.4	1729.1	1759.8	1795.8	1816.9	1826.1	1835.7	1831.5	1835.7
150°	1518.6	1614.4	1698.8	1765.9	1796.6	1831.1	1852.2	1859.8	1869.4	1863.7	1869.4
152.5°	1569.2	1660.4	1737.1	1799.6	1825.7	1860.2	1884.4	1892.1	1898.6	1894.4	1898.6
155°	1637.4	1718.0	1788.9	1846.4	1869.4	1902.0	1925.0	1934.6	1942.3	1932.7	1942.3
157.5°	1698.4	1767.8	1829.5	1882.5	1907.0	1935.0	1956.5	1968.4	1976.0	1971.8	1976.0
160°	1735.2	1798.5	1854.1	1903.9	1927.0	1951.9	1974.9	1988.3	1996.0	1990.2	1996.0
162.5°	1765.9	1823.0	1875.6	1920.8	1940.8	1962.6	1990.2	2002.1	2009.8	2002.5	2009.8
165°	1810.0	1856.0	1902.0	1940.4	1957.6	1974.9	2003.6	2017.1	2022.8	2015.1	2022.8
167.5°	1843.4	1878.6	1915.8	1948.8	1961.5	1978.3	2007.1	2018.2	2025.5	2015.9	2025.5
170°	1861.8	1892.4	1925.0	1951.9	1961.5	1976.8	2005.6	2015.1	2020.9	2011.3	2020.9
172.5°	1877.1	1900.1	1926.6	1950.3	1955.3	1967.6	1994.8	2004.4	2008.6	2000.6	2008.6
175°	1892.4	1905.9	1925.0	1940.4	1938.5	1946.1	1969.1	1976.8	1984.5	1973.0	1984.5
177.5°	1899.7	1905.9	1912.0	1921.2	1915.1	1915.1	1931.9	1936.5	1938.1	1931.9	1938.1
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2863.5	2862.0	2861.0	2865.9	2876.6	2880.5	2863.9	2847.4	2863.9	2880.5	2876.6
5°	2864.4	2860.7	2859.5	2864.4	2875.3	2878.3	2857.7	2837.1	2857.7	2878.3	2875.3
7.5°	2863.2	2857.5	2853.3	2855.4	2863.6	2864.6	2843.7	2822.9	2843.7	2864.6	2863.6
10°	2858.6	2851.6	2845.6	2846.2	2853.5	2853.5	2831.6	2809.8	2831.6	2853.5	2853.5
12.5°	2849.9	2842.2	2835.1	2834.3	2839.6	2837.9	2815.1	2792.3	2815.1	2837.9	2839.6
15°	2827.7	2819.8	2811.3	2807.6	2808.9	2803.7	2779.4	2755.1	2779.4	2803.7	2808.9
17.5°	2768.4	2766.1	2763.9	2763.6	2765.3	2760.6	2736.3	2712.0	2736.3	2760.6	2765.3
20°	2708.7	2715.1	2723.6	2729.7	2733.3	2730.0	2705.7	2681.4	2705.7	2730.0	2733.3
22.5°	2623.8	2643.0	2666.1	2681.8	2690.3	2690.2	2663.9	2637.7	2663.9	2690.2	2690.3
25°	2463.9	2503.9	2551.3	2587.1	2611.3	2623.2	2597.7	2572.2	2597.7	2623.2	2611.3
27.5°	2276.4	2333.2	2400.4	2458.1	2506.1	2537.0	2516.4	2495.7	2516.4	2537.0	2506.1
30°	2145.6	2207.2	2281.2	2353.5	2423.8	2472.7	2456.9	2441.1	2456.9	2472.7	2423.8
32.5°	2020.6	2084.9	2161.8	2244.2	2332.1	2396.5	2390.4	2384.3	2390.4	2396.5	2332.1
35°	1837.4	1901.4	1979.1	2073.1	2183.5	2269.1	2280.0	2291.0	2280.0	2269.1	2183.5
37.5°	1653.3	1720.6	1801.9	1901.5	2019.2	2115.6	2148.1	2180.6	2148.1	2115.6	2019.2
40°	1530.9	1598.3	1679.6	1781.5	1904.1	2007.6	2053.7	2099.8	2053.7	2007.6	1904.1
42.5°	1414.9	1482.5	1563.8	1665.8	1788.3	1894.7	1952.5	2010.2	1952.5	1894.7	1788.3
45°	1244.2	1309.8	1388.6	1490.6	1615.6	1726.3	1794.3	1862.3	1794.3	1726.3	1615.6
47.5°	1085.7	1148.5	1224.9	1325.5	1450.3	1560.7	1628.2	1695.7	1628.2	1560.7	1450.3
50°	981.8	1045.8	1122.3	1220.0	1338.9	1444.5	1510.0	1575.5	1510.0	1444.5	1338.9
52.5°	874.5	942.4	1020.8	1118.0	1234.0	1335.7	1394.5	1453.2	1394.5	1335.7	1234.0
55°	713.0	783.7	871.1	969.4	1078.6	1174.5	1230.3	1286.1	1230.3	1174.5	1078.6
57.5°	600.3	664.1	743.4	832.5	931.3	1017.5	1065.8	1114.1	1065.8	1017.5	931.3
60°	539.1	593.4	660.2	741.5	837.4	919.9	962.4	1004.9	962.4	919.9	837.4
62.5°	483.1	526.5	579.6	652.7	745.6	824.8	862.4	900.0	862.4	824.8	745.6
65°	403.8	439.6	483.3	544.0	621.7	686.9	714.8	742.7	714.8	686.9	621.7
67.5°	331.7	362.4	400.8	449.9	509.9	558.7	574.3	589.8	574.3	558.7	509.9
70°	290.7	315.8	347.4	389.3	441.4	481.8	486.6	491.5	486.6	481.8	441.4
72.5°	251.8	271.4	296.2	331.2	376.6	410.2	408.3	406.3	408.3	410.2	376.6
75°	198.7	212.1	229.1	253.9	286.7	308.9	299.1	289.4	299.1	308.9	286.7
77.5°	147.0	156.9	169.5	187.9	211.9	226.3	211.7	197.1	211.7	226.3	211.9
80°	114.7	122.0	131.7	145.6	163.8	173.8	159.3	144.7	159.3	173.8	163.8
82.5°	86.3	89.9	94.8	103.9	117.2	124.3	112.7	101.0	112.7	124.3	117.2
85°	35.2	41.0	48.2	54.3	59.2	61.3	55.2	49.2	55.2	61.3	59.2
87.5°	14.6	15.0	15.9	18.5	22.2	23.5	18.7	14.3	18.7	23.2	22.9
90°	40.3	38.3	38.3	36.4	30.7	23.0	13.4	5.8	13.4	21.1	34.5
92.5°	47.9	47.6	44.5	41.0	33.7	33.7	33.4	21.1	36.4	51.8	74.4
95°	44.1	44.1	51.8	65.2	95.9	97.8	65.2	59.4	84.4	118.9	149.6
97.5°	119.3	141.9	174.1	180.2	170.6	127.3	121.9	113.5	154.5	188.7	238.1
100°	220.5	249.3	272.3	226.2	178.3	176.4	164.9	161.1	205.2	237.8	285.7
102.5°	344.7	353.6	273.8	247.7	236.6	228.5	210.9	208.6	252.7	297.6	337.8
105°	373.9	335.5	337.5	337.5	329.8	314.4	281.9	279.9	329.8	381.6	431.4
107.5°	439.8	445.6	455.6	453.3	444.4	403.4	365.1	356.2	401.1	463.2	518.1
110°	527.3	533.0	536.9	533.0	519.6	467.8	421.8	408.4	448.7	513.9	573.3



TEST NUMBER: P1428461

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	611.6	615.9	624.3	612.8	590.2	530.7	478.6	459.0	499.3	566.0	627.0
115°	745.9	745.9	747.8	742.0	696.0	634.6	565.6	536.9	571.4	632.7	699.8
117.5°	877.8	880.1	872.4	857.1	803.8	732.4	655.0	609.0	636.2	701.0	770.0
120°	960.6	964.4	956.8	933.8	882.0	801.5	713.3	659.6	680.7	743.9	813.0
122.5°	1046.5	1045.7	1036.5	1010.5	949.5	865.9	779.2	713.3	722.1	780.8	848.2
125°	1165.8	1163.8	1156.2	1125.5	1062.2	975.9	874.3	793.8	782.3	832.1	901.2
127.5°	1279.3	1275.0	1263.2	1226.0	1161.2	1077.9	966.4	875.1	849.4	880.8	944.1
130°	1357.5	1351.7	1330.7	1290.4	1227.1	1148.5	1035.4	931.8	895.4	914.6	970.2
132.5°	1432.7	1416.2	1398.1	1354.8	1296.1	1214.5	1099.8	991.7	941.4	949.9	993.2
135°	1528.1	1512.8	1489.8	1447.6	1392.0	1311.5	1196.4	1079.5	1010.5	1002.8	1027.7
137.5°	1612.1	1596.0	1569.9	1533.5	1477.5	1405.8	1295.4	1171.9	1084.8	1059.2	1068.7
140°	1664.3	1645.1	1622.1	1585.7	1535.8	1461.0	1353.7	1234.8	1137.0	1100.6	1094.8
142.5°	1707.2	1692.6	1668.1	1634.7	1591.0	1516.3	1411.9	1294.6	1190.7	1143.5	1130.1
145°	1771.6	1760.1	1733.3	1702.6	1666.2	1591.4	1495.5	1378.6	1275.0	1213.7	1184.9
147.5°	1826.1	1816.9	1795.8	1759.8	1729.1	1657.4	1569.9	1466.4	1360.2	1284.3	1247.1
150°	1859.8	1852.2	1831.1	1796.6	1765.9	1698.8	1614.4	1518.6	1416.9	1336.4	1288.5
152.5°	1892.1	1884.4	1860.2	1825.7	1799.6	1737.1	1660.4	1569.2	1466.0	1385.5	1336.0
155°	1934.6	1925.0	1902.0	1869.4	1846.4	1788.9	1718.0	1637.4	1549.2	1464.9	1409.3
157.5°	1968.4	1956.5	1935.0	1907.0	1882.5	1829.5	1767.8	1698.4	1621.3	1540.8	1484.0
160°	1988.3	1974.9	1951.9	1927.0	1903.9	1854.1	1798.5	1735.2	1664.3	1591.4	1530.1
162.5°	2002.1	1990.2	1962.6	1940.8	1920.8	1875.6	1823.0	1765.9	1702.6	1639.0	1582.2
165°	2017.1	2003.6	1974.9	1957.6	1940.4	1902.0	1856.0	1810.0	1756.3	1704.5	1658.5
167.5°	2018.2	2007.1	1978.3	1961.5	1948.8	1915.8	1878.6	1843.4	1801.6	1760.9	1722.6
170°	2015.1	2005.6	1976.8	1961.5	1951.9	1925.0	1892.4	1861.8	1829.2	1794.7	1764.0
172.5°	2004.4	1994.8	1967.6	1955.3	1950.3	1926.6	1900.1	1877.1	1849.1	1823.8	1799.3
175°	1976.8	1969.1	1946.1	1938.5	1940.4	1925.0	1905.9	1892.4	1875.2	1859.8	1846.4
177.5°	1936.5	1931.9	1915.1	1915.1	1921.2	1912.0	1905.9	1899.7	1892.1	1887.5	1882.9
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428461

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2865.9	2861.0	2862.0	2863.5	2866.4	2869.3	2866.4	2863.5	2862.0	2861.0	2865.9
5°	2864.4	2859.5	2860.7	2864.4	2875.3	2886.2	2875.3	2864.4	2860.7	2859.5	2864.4
7.5°	2855.4	2853.3	2857.5	2863.2	2873.9	2884.6	2873.9	2863.2	2857.5	2853.3	2855.4
10°	2846.2	2845.6	2851.6	2858.6	2868.3	2878.0	2868.3	2858.6	2851.6	2845.6	2846.2
12.5°	2834.3	2835.1	2842.2	2849.9	2859.6	2869.3	2859.6	2849.9	2842.2	2835.1	2834.3
15°	2807.6	2811.3	2819.8	2827.7	2833.7	2839.8	2833.7	2827.7	2819.8	2811.3	2807.6
17.5°	2763.6	2763.9	2766.1	2768.4	2771.4	2774.3	2771.4	2768.4	2766.1	2763.9	2763.6
20°	2729.7	2723.6	2715.1	2708.7	2708.7	2708.7	2708.7	2708.7	2715.1	2723.6	2729.7
22.5°	2681.8	2666.1	2643.0	2623.8	2616.0	2608.2	2616.0	2623.8	2643.0	2666.1	2681.8
25°	2587.1	2551.3	2503.9	2463.9	2445.7	2427.5	2445.7	2463.9	2503.9	2551.3	2587.1
27.5°	2458.1	2400.4	2333.2	2276.4	2251.2	2226.0	2251.2	2276.4	2333.2	2400.4	2458.1
30°	2353.5	2281.2	2207.2	2145.6	2121.4	2097.1	2121.4	2145.6	2207.2	2281.2	2353.5
32.5°	2244.2	2161.8	2084.9	2020.6	1994.4	1968.2	1994.4	2020.6	2084.9	2161.8	2244.2
35°	2073.1	1979.1	1901.4	1837.4	1814.3	1791.3	1814.3	1837.4	1901.4	1979.1	2073.1
37.5°	1901.5	1801.9	1720.6	1653.3	1627.8	1602.3	1627.8	1653.3	1720.6	1801.9	1901.5
40°	1781.5	1679.6	1598.3	1530.9	1505.5	1480.0	1505.5	1530.9	1598.3	1679.6	1781.5
42.5°	1665.8	1563.8	1482.5	1414.9	1388.5	1362.0	1388.5	1414.9	1482.5	1563.8	1665.8
45°	1490.6	1388.6	1309.8	1244.2	1218.7	1193.3	1218.7	1244.2	1309.8	1388.6	1490.6
47.5°	1325.5	1224.9	1148.5	1085.7	1063.8	1042.0	1063.8	1085.7	1148.5	1224.9	1325.5
50°	1220.0	1122.3	1045.8	981.8	955.1	928.4	955.1	981.8	1045.8	1122.3	1220.0
52.5°	1118.0	1020.8	942.4	874.5	838.1	801.7	838.1	874.5	942.4	1020.8	1118.0
55°	969.4	871.1	783.7	713.0	692.4	671.7	692.4	713.0	783.7	871.1	969.4
57.5°	832.5	743.4	664.1	600.3	583.3	566.3	583.3	600.3	664.1	743.4	832.5
60°	741.5	660.2	593.4	539.1	522.1	505.2	522.1	539.1	593.4	660.2	741.5
62.5°	652.7	579.6	526.5	483.1	469.0	454.9	469.0	483.1	526.5	579.6	652.7
65°	544.0	483.3	439.6	403.8	391.7	379.5	391.7	403.8	439.6	483.3	544.0
67.5°	449.9	400.8	362.4	331.7	323.7	315.7	323.7	331.7	362.4	400.8	449.9
70°	389.3	347.4	315.8	290.7	284.6	278.5	284.6	290.7	315.8	347.4	389.3
72.5°	331.2	296.2	271.4	251.8	247.7	243.6	247.7	251.8	271.4	296.2	331.2
75°	253.9	229.1	212.1	198.7	196.3	193.9	196.3	198.7	212.1	229.1	253.9
77.5°	187.9	169.5	156.9	147.0	145.0	143.1	145.0	147.0	156.9	169.5	187.9
80°	145.6	131.7	122.0	114.7	114.7	114.7	114.7	114.7	122.0	131.7	145.6
82.5°	103.9	94.8	89.9	86.3	86.3	86.3	86.3	86.3	89.9	94.8	103.9
85°	54.3	48.2	41.0	35.2	34.0	32.8	34.0	35.2	41.0	48.2	54.3
87.5°	20.0	19.8	21.5	22.3	23.8	23.0	23.8	22.3	21.5	19.8	20.0
90°	44.1	57.5	70.9	78.6	86.3	82.4	86.3	78.6	70.9	57.5	44.1
92.5°	88.6	111.2	127.7	141.5	147.6	146.9	147.6	141.5	127.7	111.2	88.6
95°	178.3	205.2	232.0	251.2	262.7	258.8	262.7	251.2	232.0	205.2	178.3
97.5°	275.0	311.0	340.9	358.9	370.4	378.1	370.4	358.9	340.9	311.0	275.0
100°	339.4	373.9	408.4	429.5	448.7	456.3	448.7	429.5	408.4	373.9	339.4
102.5°	391.5	436.8	474.4	497.0	513.1	520.8	513.1	497.0	474.4	436.8	391.5
105°	477.4	525.4	565.6	594.4	611.6	617.4	611.6	594.4	565.6	525.4	477.4
107.5°	563.3	612.8	650.0	681.8	702.9	715.2	702.9	681.8	650.0	612.8	563.3
110°	630.8	671.1	711.3	740.1	761.2	768.9	761.2	740.1	711.3	671.1	630.8



TEST NUMBER: P1428461

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	687.6	732.4	772.7	801.5	825.6	836.4	825.6	801.5	772.7	732.4	687.6
115°	766.9	826.4	862.8	889.7	906.9	916.5	906.9	889.7	862.8	826.4	766.9
117.5°	832.9	895.0	934.9	955.6	963.7	970.6	963.7	955.6	934.9	895.0	832.9
120°	874.3	931.8	977.9	1004.7	1014.3	1018.1	1014.3	1004.7	977.9	931.8	874.3
122.5°	912.7	967.1	1011.6	1044.6	1060.3	1064.1	1060.3	1044.6	1011.6	967.1	912.7
125°	966.4	1018.1	1064.1	1096.7	1114.0	1123.6	1114.0	1096.7	1064.1	1018.1	966.4
127.5°	1013.1	1069.1	1111.3	1140.8	1157.7	1165.4	1157.7	1140.8	1111.3	1069.1	1013.1
130°	1039.2	1096.7	1138.9	1171.5	1186.8	1194.5	1186.8	1171.5	1138.9	1096.7	1039.2
132.5°	1059.2	1119.7	1163.5	1193.0	1209.9	1217.5	1209.9	1193.0	1163.5	1119.7	1059.2
135°	1083.3	1146.6	1192.6	1221.4	1236.7	1244.4	1236.7	1221.4	1192.6	1146.6	1083.3
137.5°	1104.4	1161.9	1209.9	1240.2	1254.0	1258.9	1254.0	1240.2	1209.9	1161.9	1104.4
140°	1119.7	1169.6	1217.5	1246.3	1261.6	1263.5	1261.6	1246.3	1217.5	1169.6	1119.7
142.5°	1139.7	1178.8	1220.6	1249.4	1264.7	1268.1	1264.7	1249.4	1220.6	1178.8	1139.7
145°	1175.3	1198.4	1227.1	1254.0	1267.4	1271.2	1267.4	1254.0	1227.1	1198.4	1175.3
147.5°	1220.2	1227.5	1242.5	1260.1	1273.1	1275.8	1273.1	1260.1	1242.5	1227.5	1220.2
150°	1254.0	1252.0	1257.8	1269.3	1280.8	1278.9	1280.8	1269.3	1257.8	1252.0	1254.0
152.5°	1292.3	1281.2	1280.8	1286.2	1291.5	1291.2	1291.5	1286.2	1280.8	1281.2	1292.3
155°	1357.5	1336.4	1324.9	1321.1	1321.1	1319.1	1321.1	1321.1	1324.9	1336.4	1357.5
157.5°	1429.2	1399.7	1382.4	1373.2	1370.5	1366.3	1370.5	1373.2	1382.4	1399.7	1429.2
160°	1478.3	1445.7	1428.4	1413.1	1407.3	1401.6	1407.3	1413.1	1428.4	1445.7	1478.3
162.5°	1524.3	1493.2	1474.5	1460.6	1454.9	1446.1	1454.9	1460.6	1474.5	1493.2	1524.3
165°	1599.1	1566.5	1545.4	1533.9	1526.2	1518.6	1526.2	1533.9	1545.4	1566.5	1599.1
167.5°	1673.9	1638.2	1624.4	1611.4	1604.1	1590.3	1604.1	1611.4	1624.4	1638.2	1673.9
170°	1719.9	1687.3	1679.6	1668.1	1654.7	1639.3	1654.7	1668.1	1679.6	1687.3	1719.9
172.5°	1759.8	1737.9	1730.2	1718.7	1714.5	1702.2	1714.5	1718.7	1730.2	1737.9	1759.8
175°	1817.7	1800.4	1800.4	1798.5	1792.7	1781.2	1792.7	1798.5	1800.4	1800.4	1817.7
177.5°	1866.0	1856.8	1862.9	1862.9	1861.4	1850.6	1861.4	1862.9	1862.9	1856.8	1866.0
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428461

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2867.1	2867.1	2867.1	2867.1
2.5°	2876.6	2880.5	2863.9	2847.4
5°	2875.3	2878.3	2857.7	2837.1
7.5°	2863.6	2864.6	2843.7	2822.9
10°	2853.5	2853.5	2831.6	2809.8
12.5°	2839.6	2837.9	2815.1	2792.3
15°	2808.9	2803.7	2779.4	2755.1
17.5°	2765.3	2760.6	2736.3	2712.0
20°	2733.3	2730.0	2705.7	2681.4
22.5°	2690.3	2690.2	2663.9	2637.7
25°	2611.3	2623.2	2597.7	2572.2
27.5°	2506.1	2537.0	2516.4	2495.7
30°	2423.8	2472.7	2456.9	2441.1
32.5°	2332.1	2396.5	2390.4	2384.3
35°	2183.5	2269.1	2280.0	2291.0
37.5°	2019.2	2115.6	2148.1	2180.6
40°	1904.1	2007.6	2053.7	2099.8
42.5°	1788.3	1894.7	1952.5	2010.2
45°	1615.6	1726.3	1794.3	1862.3
47.5°	1450.3	1560.7	1628.2	1695.7
50°	1338.9	1444.5	1510.0	1575.5
52.5°	1234.0	1335.7	1394.5	1453.2
55°	1078.6	1174.5	1230.3	1286.1
57.5°	931.3	1017.5	1065.8	1114.1
60°	837.4	919.9	962.4	1004.9
62.5°	745.6	824.8	862.4	900.0
65°	621.7	686.9	714.8	742.7
67.5°	509.9	558.7	574.3	589.8
70°	441.4	481.8	486.6	491.5
72.5°	376.6	410.2	408.3	406.3
75°	286.7	308.9	299.1	289.4
77.5°	211.9	226.3	211.7	197.1
80°	163.8	173.8	159.3	144.7
82.5°	117.2	124.3	112.7	101.0
85°	59.2	61.3	55.2	49.2
87.5°	22.9	23.2	18.7	14.3
90°	34.5	21.1	13.4	5.8
92.5°	74.4	51.8	36.4	21.1
95°	149.6	118.9	84.4	59.4
97.5°	238.1	188.7	154.5	113.5
100°	285.7	237.8	205.2	161.1
102.5°	337.8	297.6	252.7	208.6
105°	431.4	381.6	329.8	279.9
107.5°	518.1	463.2	401.1	356.2
110°	573.3	513.9	448.7	408.4



TEST NUMBER: P1428461

CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	627.0	566.0	499.3	459.0
115°	699.8	632.7	571.4	536.9
117.5°	770.0	701.0	636.2	609.0
120°	813.0	743.9	680.7	659.6
122.5°	848.2	780.8	722.1	713.3
125°	901.2	832.1	782.3	793.8
127.5°	944.1	880.8	849.4	875.1
130°	970.2	914.6	895.4	931.8
132.5°	993.2	949.9	941.4	991.7
135°	1027.7	1002.8	1010.5	1079.5
137.5°	1068.7	1059.2	1084.8	1171.9
140°	1094.8	1100.6	1137.0	1234.8
142.5°	1130.1	1143.5	1190.7	1294.6
145°	1184.9	1213.7	1275.0	1378.6
147.5°	1247.1	1284.3	1360.2	1466.4
150°	1288.5	1336.4	1416.9	1518.6
152.5°	1336.0	1385.5	1466.0	1569.2
155°	1409.3	1464.9	1549.2	1637.4
157.5°	1484.0	1540.8	1621.3	1698.4
160°	1530.1	1591.4	1664.3	1735.2
162.5°	1582.2	1639.0	1702.6	1765.9
165°	1658.5	1704.5	1756.3	1810.0
167.5°	1722.6	1760.9	1801.6	1843.4
170°	1764.0	1794.7	1829.2	1861.8
172.5°	1799.3	1823.8	1849.1	1877.1
175°	1846.4	1859.8	1875.2	1892.4
177.5°	1882.9	1887.5	1892.1	1899.7
180°	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1428461  
 CATALOG NUMBER: SQ2W-PW1-K-125U-125D-L830-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	20.56	21.41	21.49	22.36	23.58	16.81	17.66	17.74	18.60	19.83
	3H	21.86	22.62	22.81	23.58	24.82	18.08	18.84	19.02	19.79	21.04
	4H	22.27	22.99	23.23	23.95	25.20	18.58	19.30	19.54	20.26	21.52
	6H	22.45	23.11	23.42	24.07	25.34	18.89	19.55	19.86	20.52	21.79
	8H	22.49	23.12	23.47	24.10	25.37	19.00	19.63	19.98	20.61	21.88
	12H	22.49	23.09	23.47	24.06	25.35	19.03	19.63	20.02	20.61	21.90
4H	2H	20.69	21.41	21.66	22.37	23.63	17.61	18.33	18.58	19.29	20.55
	3H	22.23	22.82	23.20	23.81	25.08	19.06	19.66	20.04	20.65	21.92
	4H	22.77	23.32	23.76	24.30	25.60	19.64	20.18	20.62	21.17	22.46
	6H	23.08	23.55	24.08	24.56	25.85	20.02	20.49	21.02	21.50	22.79
	8H	23.17	23.61	24.17	24.61	25.92	20.17	20.61	21.17	21.61	22.92
	12H	23.20	23.59	24.21	24.61	25.92	20.22	20.61	21.23	21.63	22.94
8H	4H	22.81	23.25	23.81	24.25	25.56	19.98	20.42	20.98	21.42	22.73
	6H	23.23	23.59	24.25	24.64	25.94	20.47	20.83	21.50	21.88	23.18
	8H	23.40	23.72	24.43	24.75	26.07	20.69	21.01	21.72	22.04	23.36
	12H	23.48	23.76	24.51	24.78	26.15	20.78	21.06	21.81	22.08	23.45
12H	4H	22.77	23.16	23.79	24.18	25.49	20.00	20.39	21.02	21.41	22.72
	6H	23.23	23.54	24.26	24.57	25.90	20.55	20.87	21.58	21.90	23.22
	8H	23.42	23.69	24.45	24.72	26.09	20.79	21.07	21.83	22.10	23.46