

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: P1428295

Luminaire Tested: SQ2W-PR1-K-125U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428295  
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-125U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE 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**

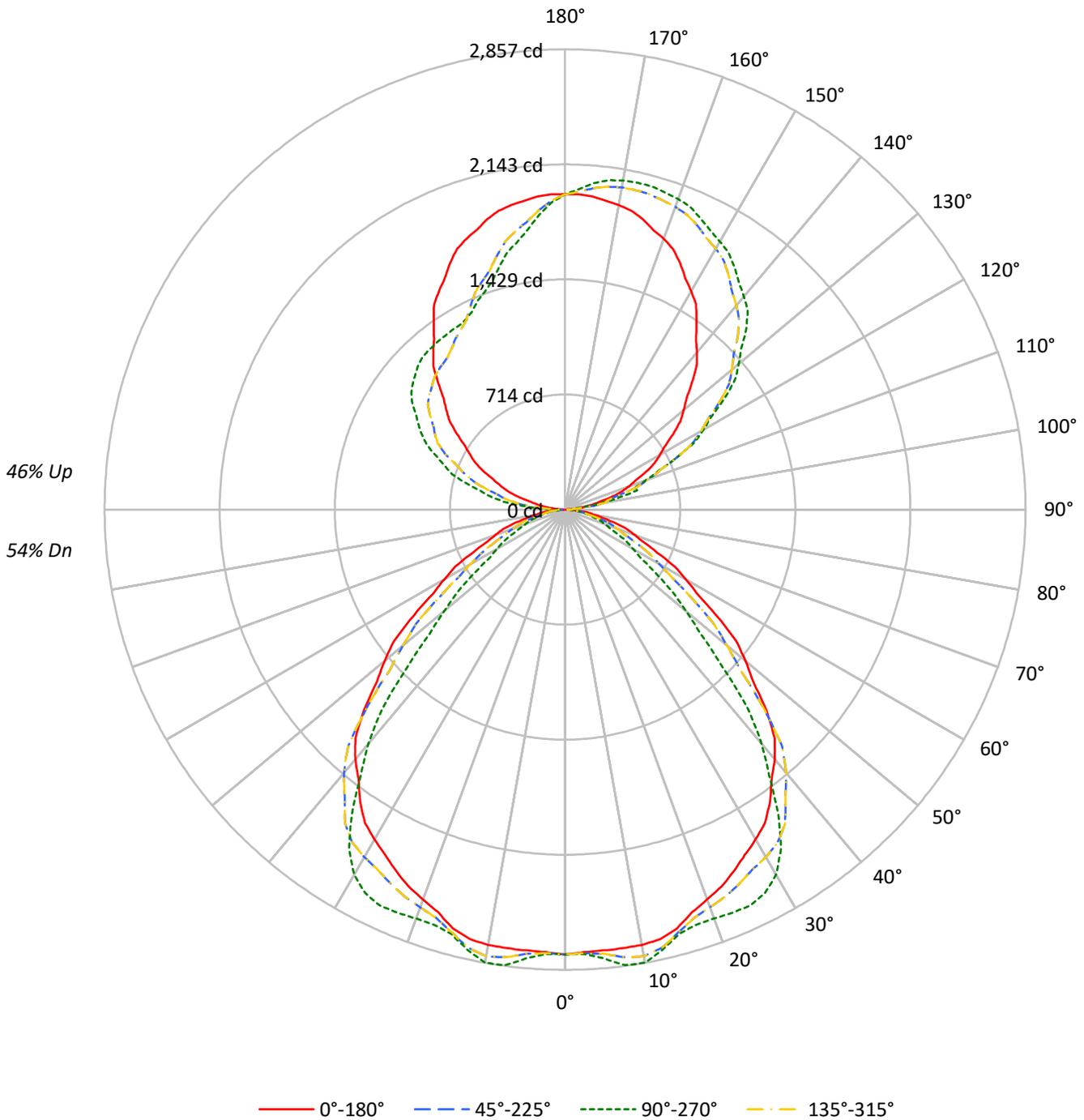
Lumens per Lamp: N/A  
Luminaire Lumens: 12363.3 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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: P1428295

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

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

	0°	90°	180°	270°
0°	44578	44578	44578	44578
5°	44521	45341	44521	45341
10°	44988	46835	44988	46835
15°	44975	45587	44975	45587
20°	44248	46423	44248	46423
25°	44123	48335	44123	48335
30°	44076	48799	44076	48799
35°	43658	45434	43658	45434
40°	42650	39982	42650	39982
45°	40358	31617	40358	31617
50°	36690	24530	36690	24530
55°	32245	19093	32245	19093
60°	27903	15723	27903	15723
65°	24087	13765	24087	13765
70°	21658	12222	21658	12222
75°	19837	11235	19837	11235
80°	17275	10990	17275	10990
85°	12504	5206	12504	5206

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 43328 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.6	2.2
10°-20°	771.9	6.2
20°-30°	1193.2	9.7
30°-40°	1434.9	11.6
40°-50°	1288.6	10.4
50°-60°	863.4	7.0
60°-70°	502.3	4.1
70°-80°	258.0	2.1
80°-90°	71.7	0.6
90°-100°	155.7	1.3
100°-110°	454.1	3.7
110°-120°	741.1	6.0
120°-130°	940.4	7.6
130°-140°	1006.2	8.1
140°-150°	939.6	7.6
150°-160°	773.1	6.3
160°-170°	518.5	4.2
170°-180°	184.1	1.5
0°-30°	2231.7	18.1
0°-40°	3666.7	29.7
0°-60°	5818.6	47.1
0°-90°	6650.6	53.8
90°-120°	1350.9	10.9
90°-150°	4237.0	34.3
90°-180°	5713.0	46.2
0°-180°	12363.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2761	2761	2761	2761	2761	
5°	2747	2798	2747	2798	2747	262
15°	2691	2727	2691	2727	2691	756
25°	2477	2713	2477	2713	2477	1142
35°	2215	2305	2215	2305	2215	1381
45°	1768	1385	1768	1385	1768	1352
55°	1146	678	1146	678	1146	1029
65°	630	360	630	360	630	638
75°	318	180	318	180	318	337
85°	68	28	68	28	68	84
90°	6	44	6	85	6	7
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	



TEST NUMBER: P1428295

CATALOG NUMBER: SQ2W-PR1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0
2.5°	2749.8	2764.8	2779.8	2773.0	2759.0	2752.5	2753.5	2755.0	2758.0	2761.0	2758.0
5°	2747.0	2768.2	2789.5	2784.5	2770.7	2765.1	2767.6	2772.6	2785.1	2797.6	2785.1
7.5°	2746.4	2776.7	2806.9	2809.3	2802.3	2802.4	2809.6	2819.2	2835.7	2852.2	2835.7
10°	2744.1	2780.4	2816.7	2822.0	2817.0	2815.1	2816.4	2821.7	2839.2	2856.7	2839.2
12.5°	2730.6	2772.9	2815.2	2810.8	2790.7	2779.9	2778.1	2779.2	2788.7	2798.2	2788.7
15°	2690.7	2740.7	2790.7	2770.4	2726.6	2706.6	2710.4	2714.8	2721.0	2727.3	2721.0
17.5°	2620.3	2672.6	2724.9	2706.6	2664.8	2650.7	2664.2	2677.4	2689.7	2701.9	2689.7
20°	2575.3	2626.6	2677.8	2665.3	2631.6	2623.4	2640.9	2659.4	2680.7	2701.9	2680.7
22.5°	2534.7	2586.0	2637.3	2629.3	2601.5	2599.9	2624.4	2650.1	2679.4	2708.7	2679.4
25°	2476.8	2521.8	2566.8	2567.8	2554.0	2567.8	2609.1	2648.1	2680.7	2713.2	2680.7
27.5°	2416.0	2442.5	2469.0	2486.5	2501.0	2536.2	2592.0	2639.5	2662.3	2685.0	2662.3
30°	2364.2	2381.7	2399.2	2431.7	2469.3	2512.4	2561.2	2600.0	2608.7	2617.5	2608.7
32.5°	2307.9	2318.4	2328.9	2374.7	2432.2	2473.9	2499.7	2516.2	2504.9	2493.7	2504.9
35°	2215.0	2223.8	2232.5	2291.0	2366.1	2393.6	2373.6	2352.6	2328.9	2305.1	2328.9
37.5°	2104.7	2122.7	2140.7	2188.4	2245.9	2245.4	2186.9	2136.2	2108.9	2081.6	2108.9
40°	2023.6	2053.7	2083.7	2115.6	2148.1	2120.6	2033.0	1959.5	1928.3	1897.0	1928.3
42.5°	1924.6	1972.6	2020.6	2027.8	2021.3	1962.2	1850.6	1757.4	1719.1	1680.8	1719.1
45°	1767.5	1832.6	1897.6	1860.4	1789.1	1692.8	1571.4	1469.8	1427.3	1384.7	1427.3
47.5°	1582.3	1649.1	1715.9	1645.7	1529.9	1417.8	1309.5	1218.3	1178.5	1138.8	1178.5
50°	1460.7	1514.5	1568.3	1488.9	1365.0	1252.5	1151.1	1064.2	1020.4	976.6	1020.4
52.5°	1336.9	1375.7	1414.4	1335.8	1217.9	1108.4	1007.0	921.1	881.3	841.5	881.3
55°	1145.5	1165.5	1185.5	1112.7	1008.8	908.8	812.5	733.3	705.8	678.3	705.8
57.5°	969.9	982.6	995.4	926.3	830.0	741.0	659.2	592.7	572.5	552.2	572.5
60°	864.1	872.8	881.6	811.5	715.2	635.1	571.3	519.4	503.2	486.9	503.2
62.5°	767.2	774.0	780.7	713.2	620.9	549.3	498.5	457.4	445.1	432.9	445.1
65°	630.5	636.7	643.0	585.4	506.6	447.8	409.0	377.8	369.0	360.3	369.0
67.5°	521.8	525.1	528.3	480.9	416.6	369.2	338.7	313.7	305.5	297.2	305.5
70°	458.8	460.0	461.3	419.4	363.1	321.2	293.6	271.4	265.2	258.9	265.2
72.5°	402.5	400.7	399.0	361.6	312.3	276.4	253.9	235.9	231.7	227.4	231.7
75°	318.0	314.3	310.5	279.6	239.5	212.0	197.0	185.1	182.6	180.1	182.6
77.5°	237.5	233.5	229.5	203.8	170.7	151.7	146.7	143.0	143.0	143.0	143.0
80°	185.8	180.8	175.8	155.7	130.7	118.2	118.2	118.2	118.2	118.2	118.2
82.5°	138.5	131.5	124.5	112.2	98.2	91.2	91.2	90.9	89.9	88.9	89.9
85°	67.5	61.3	55.0	53.5	53.5	49.7	42.2	35.7	31.9	28.1	31.9
87.5°	19.2	20.8	22.8	20.6	16.8	14.7	14.7	15.1	15.5	15.5	15.5
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°	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0
2.5°	2755.0	2753.5	2752.5	2759.0	2773.0	2779.8	2764.8	2749.8	2764.8	2779.8	2773.0
5°	2772.6	2767.6	2765.1	2770.7	2784.5	2789.5	2768.2	2747.0	2768.2	2789.5	2784.5
7.5°	2819.2	2809.6	2802.4	2802.3	2809.3	2806.9	2776.7	2746.4	2776.7	2806.9	2809.3
10°	2821.7	2816.4	2815.1	2817.0	2822.0	2816.7	2780.4	2744.1	2780.4	2816.7	2822.0
12.5°	2779.2	2778.1	2779.9	2790.7	2810.8	2815.2	2772.9	2730.6	2772.9	2815.2	2810.8
15°	2714.8	2710.4	2706.6	2726.6	2770.4	2790.7	2740.7	2690.7	2740.7	2790.7	2770.4
17.5°	2677.4	2664.2	2650.7	2664.8	2706.6	2724.9	2672.6	2620.3	2672.6	2724.9	2706.6
20°	2659.4	2640.9	2623.4	2631.6	2665.3	2677.8	2626.6	2575.3	2626.6	2677.8	2665.3
22.5°	2650.1	2624.4	2599.9	2601.5	2629.3	2637.3	2586.0	2534.7	2586.0	2637.3	2629.3
25°	2648.1	2609.1	2567.8	2554.0	2567.8	2566.8	2521.8	2476.8	2521.8	2566.8	2567.8
27.5°	2639.5	2592.0	2536.2	2501.0	2486.5	2469.0	2442.5	2416.0	2442.5	2469.0	2486.5
30°	2600.0	2561.2	2512.4	2469.3	2431.7	2399.2	2381.7	2364.2	2381.7	2399.2	2431.7
32.5°	2516.2	2499.7	2473.9	2432.2	2374.7	2328.9	2318.4	2307.9	2318.4	2328.9	2374.7
35°	2352.6	2373.6	2393.6	2366.1	2291.0	2232.5	2223.8	2215.0	2223.8	2232.5	2291.0
37.5°	2136.2	2186.9	2245.4	2245.9	2188.4	2140.7	2122.7	2104.7	2122.7	2140.7	2188.4
40°	1959.5	2033.0	2120.6	2148.1	2115.6	2083.7	2053.7	2023.6	2053.7	2083.7	2115.6
42.5°	1757.4	1850.6	1962.2	2021.3	2027.8	2020.6	1972.6	1924.6	1972.6	2020.6	2027.8
45°	1469.8	1571.4	1692.8	1789.1	1860.4	1897.6	1832.6	1767.5	1832.6	1897.6	1860.4
47.5°	1218.3	1309.5	1417.8	1529.9	1645.7	1715.9	1649.1	1582.3	1649.1	1715.9	1645.7
50°	1064.2	1151.1	1252.5	1365.0	1488.9	1568.3	1514.5	1460.7	1514.5	1568.3	1488.9
52.5°	921.1	1007.0	1108.4	1217.9	1335.8	1414.4	1375.7	1336.9	1375.7	1414.4	1335.8
55°	733.3	812.5	908.8	1008.8	1112.7	1185.5	1165.5	1145.5	1165.5	1185.5	1112.7
57.5°	592.7	659.2	741.0	830.0	926.3	995.4	982.6	969.9	982.6	995.4	926.3
60°	519.4	571.3	635.1	715.2	811.5	881.6	872.8	864.1	872.8	881.6	811.5
62.5°	457.4	498.5	549.3	620.9	713.2	780.7	774.0	767.2	774.0	780.7	713.2
65°	377.8	409.0	447.8	506.6	585.4	643.0	636.7	630.5	636.7	643.0	585.4
67.5°	313.7	338.7	369.2	416.6	480.9	528.3	525.1	521.8	525.1	528.3	480.9
70°	271.4	293.6	321.2	363.1	419.4	461.3	460.0	458.8	460.0	461.3	419.4
72.5°	235.9	253.9	276.4	312.3	361.6	399.0	400.7	402.5	400.7	399.0	361.6
75°	185.1	197.0	212.0	239.5	279.6	310.5	314.3	318.0	314.3	310.5	279.6
77.5°	143.0	146.7	151.7	170.7	203.8	229.5	233.5	237.5	233.5	229.5	203.8
80°	118.2	118.2	118.2	130.7	155.7	175.8	180.8	185.8	180.8	175.8	155.7
82.5°	90.9	91.2	91.2	98.2	112.2	124.5	131.5	138.5	131.5	124.5	112.2
85°	35.7	42.2	49.7	53.5	53.5	55.0	61.3	67.5	61.3	55.0	53.5
87.5°	15.1	14.7	14.7	16.8	20.6	22.8	20.8	19.2	20.8	22.4	21.4
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: P1428295

CATALOG NUMBER: SQ2W-PR1-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: P1428295

CATALOG NUMBER: SQ2W-PR1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0
2.5°	2759.0	2752.5	2753.5	2755.0	2758.0	2761.0	2758.0	2755.0	2753.5	2752.5	2759.0
5°	2770.7	2765.1	2767.6	2772.6	2785.1	2797.6	2785.1	2772.6	2767.6	2765.1	2770.7
7.5°	2802.3	2802.4	2809.6	2819.2	2835.7	2852.2	2835.7	2819.2	2809.6	2802.4	2802.3
10°	2817.0	2815.1	2816.4	2821.7	2839.2	2856.7	2839.2	2821.7	2816.4	2815.1	2817.0
12.5°	2790.7	2779.9	2778.1	2779.2	2788.7	2798.2	2788.7	2779.2	2778.1	2779.9	2790.7
15°	2726.6	2706.6	2710.4	2714.8	2721.0	2727.3	2721.0	2714.8	2710.4	2706.6	2726.6
17.5°	2664.8	2650.7	2664.2	2677.4	2689.7	2701.9	2689.7	2677.4	2664.2	2650.7	2664.8
20°	2631.6	2623.4	2640.9	2659.4	2680.7	2701.9	2680.7	2659.4	2640.9	2623.4	2631.6
22.5°	2601.5	2599.9	2624.4	2650.1	2679.4	2708.7	2679.4	2650.1	2624.4	2599.9	2601.5
25°	2554.0	2567.8	2609.1	2648.1	2680.7	2713.2	2680.7	2648.1	2609.1	2567.8	2554.0
27.5°	2501.0	2536.2	2592.0	2639.5	2662.3	2685.0	2662.3	2639.5	2592.0	2536.2	2501.0
30°	2469.3	2512.4	2561.2	2600.0	2608.7	2617.5	2608.7	2600.0	2561.2	2512.4	2469.3
32.5°	2432.2	2473.9	2499.7	2516.2	2504.9	2493.7	2504.9	2516.2	2499.7	2473.9	2432.2
35°	2366.1	2393.6	2373.6	2352.6	2328.9	2305.1	2328.9	2352.6	2373.6	2393.6	2366.1
37.5°	2245.9	2245.4	2186.9	2136.2	2108.9	2081.6	2108.9	2136.2	2186.9	2245.4	2245.9
40°	2148.1	2120.6	2033.0	1959.5	1928.3	1897.0	1928.3	1959.5	2033.0	2120.6	2148.1
42.5°	2021.3	1962.2	1850.6	1757.4	1719.1	1680.8	1719.1	1757.4	1850.6	1962.2	2021.3
45°	1789.1	1692.8	1571.4	1469.8	1427.3	1384.7	1427.3	1469.8	1571.4	1692.8	1789.1
47.5°	1529.9	1417.8	1309.5	1218.3	1178.5	1138.8	1178.5	1218.3	1309.5	1417.8	1529.9
50°	1365.0	1252.5	1151.1	1064.2	1020.4	976.6	1020.4	1064.2	1151.1	1252.5	1365.0
52.5°	1217.9	1108.4	1007.0	921.1	881.3	841.5	881.3	921.1	1007.0	1108.4	1217.9
55°	1008.8	908.8	812.5	733.3	705.8	678.3	705.8	733.3	812.5	908.8	1008.8
57.5°	830.0	741.0	659.2	592.7	572.5	552.2	572.5	592.7	659.2	741.0	830.0
60°	715.2	635.1	571.3	519.4	503.2	486.9	503.2	519.4	571.3	635.1	715.2
62.5°	620.9	549.3	498.5	457.4	445.1	432.9	445.1	457.4	498.5	549.3	620.9
65°	506.6	447.8	409.0	377.8	369.0	360.3	369.0	377.8	409.0	447.8	506.6
67.5°	416.6	369.2	338.7	313.7	305.5	297.2	305.5	313.7	338.7	369.2	416.6
70°	363.1	321.2	293.6	271.4	265.2	258.9	265.2	271.4	293.6	321.2	363.1
72.5°	312.3	276.4	253.9	235.9	231.7	227.4	231.7	235.9	253.9	276.4	312.3
75°	239.5	212.0	197.0	185.1	182.6	180.1	182.6	185.1	197.0	212.0	239.5
77.5°	170.7	151.7	146.7	143.0	143.0	143.0	143.0	143.0	146.7	151.7	170.7
80°	130.7	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	130.7
82.5°	98.2	91.2	91.2	90.9	89.9	88.9	89.9	90.9	91.2	91.2	98.2
85°	53.5	49.7	42.2	35.7	31.9	28.1	31.9	35.7	42.2	49.7	53.5
87.5°	18.3	18.6	21.4	23.0	24.5	23.8	24.5	23.0	21.4	18.6	18.3
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: P1428295

CATALOG NUMBER: SQ2W-PR1-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: P1428295

CATALOG NUMBER: SQ2W-PR1-K-125U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2761.0	2761.0	2761.0	2761.0
2.5°	2773.0	2779.8	2764.8	2749.8
5°	2784.5	2789.5	2768.2	2747.0
7.5°	2809.3	2806.9	2776.7	2746.4
10°	2822.0	2816.7	2780.4	2744.1
12.5°	2810.8	2815.2	2772.9	2730.6
15°	2770.4	2790.7	2740.7	2690.7
17.5°	2706.6	2724.9	2672.6	2620.3
20°	2665.3	2677.8	2626.6	2575.3
22.5°	2629.3	2637.3	2586.0	2534.7
25°	2567.8	2566.8	2521.8	2476.8
27.5°	2486.5	2469.0	2442.5	2416.0
30°	2431.7	2399.2	2381.7	2364.2
32.5°	2374.7	2328.9	2318.4	2307.9
35°	2291.0	2232.5	2223.8	2215.0
37.5°	2188.4	2140.7	2122.7	2104.7
40°	2115.6	2083.7	2053.7	2023.6
42.5°	2027.8	2020.6	1972.6	1924.6
45°	1860.4	1897.6	1832.6	1767.5
47.5°	1645.7	1715.9	1649.1	1582.3
50°	1488.9	1568.3	1514.5	1460.7
52.5°	1335.8	1414.4	1375.7	1336.9
55°	1112.7	1185.5	1165.5	1145.5
57.5°	926.3	995.4	982.6	969.9
60°	811.5	881.6	872.8	864.1
62.5°	713.2	780.7	774.0	767.2
65°	585.4	643.0	636.7	630.5
67.5°	480.9	528.3	525.1	521.8
70°	419.4	461.3	460.0	458.8
72.5°	361.6	399.0	400.7	402.5
75°	279.6	310.5	314.3	318.0
77.5°	203.8	229.5	233.5	237.5
80°	155.7	175.8	180.8	185.8
82.5°	112.2	124.5	131.5	138.5
85°	53.5	55.0	61.3	67.5
87.5°	21.4	22.4	20.8	19.2
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: P1428295

CATALOG NUMBER: SQ2W-PR1-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: P1428295  
 CATALOG NUMBER: SQ2W-PR1-K-125U-125D-L840-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	20.21	21.07	21.15	22.01	23.23	16.58	17.43	17.51	18.38	19.60
	3H	21.42	22.18	22.36	23.13	24.38	17.74	18.50	18.69	19.46	20.70
	4H	21.90	22.62	22.86	23.58	24.83	18.21	18.92	19.17	19.88	21.14
	6H	22.20	22.86	23.17	23.83	25.09	18.55	19.21	19.52	20.17	21.44
	8H	22.30	22.93	23.28	23.91	25.17	18.69	19.31	19.66	20.29	21.56
	12H	22.34	22.94	23.32	23.91	25.20	18.72	19.31	19.70	20.29	21.57
4H	2H	20.32	21.03	21.28	21.99	23.24	17.29	18.01	18.26	18.97	20.22
	3H	21.78	22.37	22.75	23.36	24.62	18.65	19.24	19.62	20.23	21.50
	4H	22.40	22.95	23.39	23.93	25.22	19.19	19.73	20.17	20.72	22.01
	6H	22.83	23.30	23.83	24.31	25.60	19.62	20.09	20.62	21.10	22.39
	8H	22.99	23.43	23.99	24.43	25.73	19.81	20.24	20.80	21.24	22.54
	12H	23.06	23.45	24.07	24.47	25.77	19.85	20.25	20.87	21.26	22.57
8H	4H	22.43	22.86	23.42	23.86	25.16	19.52	19.95	20.51	20.95	22.25
	6H	22.96	23.32	23.98	24.36	25.66	20.06	20.42	21.08	21.46	22.76
	8H	23.19	23.51	24.22	24.54	25.86	20.32	20.64	21.35	21.66	22.98
	12H	23.31	23.59	24.34	24.61	25.98	20.41	20.69	21.44	21.71	23.08
12H	4H	22.39	22.78	23.40	23.79	25.10	19.54	19.93	20.55	20.94	22.25
	6H	22.95	23.27	23.98	24.29	25.61	20.13	20.45	21.16	21.48	22.79
	8H	23.20	23.48	24.23	24.50	25.87	20.42	20.70	21.45	21.72	23.08