

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: P1428449

Luminaire Tested: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428449
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-075D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE WAVES LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

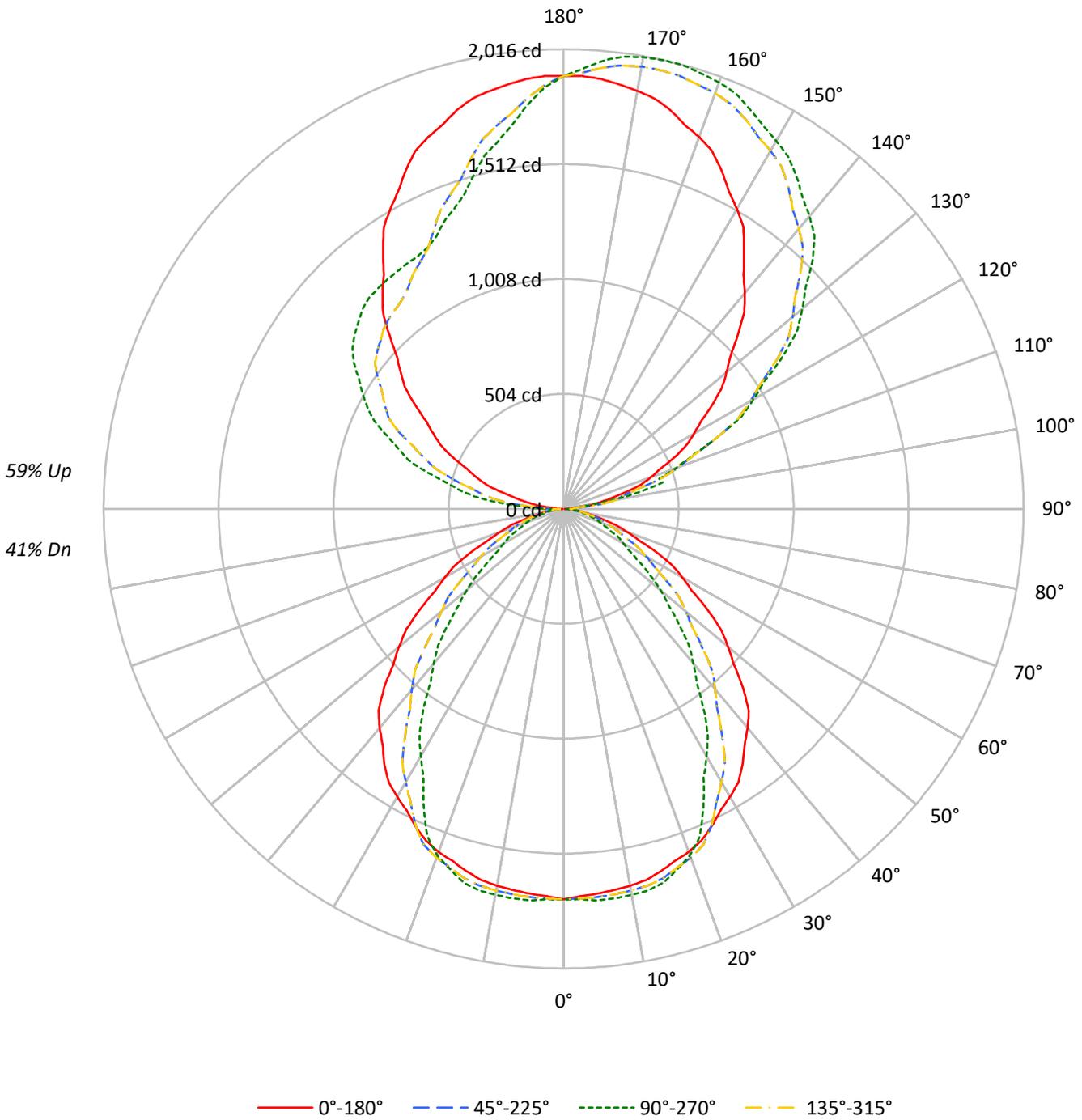
Lumens per Lamp: N/A
Luminaire Lumens: 9350.4 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.7
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

TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	55	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	80	71	65	59	73	66	60	55	54	50	46	44	41	38	34	32	31	26
4	74	64	56	50	67	58	52	47	48	44	40	39	36	33	31	29	27	23
5	68	57	49	43	62	52	45	40	44	38	35	35	32	29	28	25	23	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	26	23	21	18
7	58	46	38	33	53	43	36	31	36	31	27	29	26	23	23	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27651	27651	27651	27651
5°	27466	27941	27466	27941
10°	27515	28184	27515	28184
15°	27508	28354	27508	28354
20°	27520	27800	27520	27800
25°	27370	25831	27370	25831
30°	27186	23353	27186	23353
35°	26971	21090	26971	21090
40°	26436	18632	26436	18632
45°	25400	16276	25400	16276
50°	23639	13930	23639	13930
55°	21624	11293	21624	11293
60°	19381	9742	19381	9742
65°	16947	8661	16947	8661
70°	13860	7855	13860	7855
75°	10786	7224	10786	7224
80°	8033	6369	8033	6369
85°	5446	3631	5446	3631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25400 cd/sqm



TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.7
10°-20°	472.5	5.1
20°-30°	695.4	7.4
30°-40°	760.3	8.1
40°-50°	682.0	7.3
50°-60°	508.8	5.4
60°-70°	321.5	3.4
70°-80°	159.3	1.7
80°-90°	45.1	0.5
90°-100°	151.1	1.6
100°-110°	440.5	4.7
110°-120°	719.0	7.7
120°-130°	912.3	9.8
130°-140°	976.2	10.4
140°-150°	911.5	9.7
150°-160°	750.1	8.0
160°-170°	503.1	5.4
170°-180°	178.6	1.9
0°-30°	1330.9	14.2
0°-40°	2091.2	22.4
0°-60°	3282.0	35.1
0°-90°	3808.1	40.7
90°-120°	1310.6	14.0
90°-150°	4110.6	44.0
90°-180°	5542.0	59.3
0°-180°	9350.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1713	1713	1713	1713	1713	
5°	1695	1724	1695	1724	1695	161
15°	1646	1696	1646	1696	1646	465
25°	1536	1450	1536	1450	1536	708
35°	1368	1070	1368	1070	1368	853
45°	1112	713	1112	713	1112	853
55°	768	401	768	401	768	686
65°	444	227	444	227	444	440
75°	173	116	173	116	173	190
85°	29	20	29	20	29	37
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	



TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1700.9	1710.7	1720.6	1718.3	1711.9	1709.0	1709.6	1710.4	1712.2	1713.9	1712.2
5°	1694.7	1707.0	1719.3	1717.5	1711.0	1708.1	1708.8	1711.0	1717.5	1724.0	1717.5
7.5°	1686.2	1698.6	1711.1	1710.5	1705.6	1704.4	1706.8	1710.3	1716.7	1723.0	1716.7
10°	1678.3	1691.4	1704.4	1704.4	1700.1	1699.7	1703.4	1707.5	1713.3	1719.1	1713.3
12.5°	1667.9	1681.5	1695.2	1696.2	1693.0	1693.5	1697.7	1702.3	1708.1	1713.9	1708.1
15°	1645.7	1660.2	1674.7	1677.8	1677.1	1679.3	1684.3	1689.0	1692.7	1696.3	1692.7
17.5°	1620.0	1634.5	1649.0	1651.8	1650.8	1650.9	1652.3	1653.7	1655.4	1657.1	1655.4
20°	1601.7	1616.2	1630.7	1632.7	1630.5	1626.9	1621.8	1618.0	1618.0	1618.0	1618.0
22.5°	1575.6	1591.3	1606.9	1607.0	1601.9	1592.5	1578.7	1567.3	1562.6	1558.0	1562.6
25°	1536.4	1551.7	1566.9	1559.8	1545.3	1523.9	1495.7	1471.7	1460.9	1450.0	1460.9
27.5°	1490.8	1503.1	1515.4	1497.0	1468.3	1433.8	1393.7	1359.8	1344.7	1329.6	1344.7
30°	1458.2	1467.6	1477.0	1447.8	1405.8	1362.6	1318.4	1281.6	1267.1	1252.6	1267.1
32.5°	1424.2	1427.9	1431.5	1393.0	1340.5	1291.3	1245.4	1207.0	1191.3	1175.7	1191.3
35°	1368.4	1361.9	1355.4	1304.3	1238.3	1182.1	1135.8	1097.5	1083.7	1070.0	1083.7
37.5°	1302.6	1283.1	1263.7	1206.1	1135.8	1076.3	1027.8	987.5	972.3	957.1	972.3
40°	1254.3	1226.7	1199.2	1137.4	1064.2	1003.3	954.7	914.5	899.3	884.0	899.3
42.5°	1200.8	1166.3	1131.8	1068.2	995.0	934.1	885.6	845.2	829.4	813.6	829.4
45°	1112.4	1071.8	1031.2	965.0	890.4	829.5	782.4	743.2	728.0	712.8	728.0
47.5°	1012.9	972.6	932.3	866.3	791.8	731.7	686.0	648.5	635.5	622.4	635.5
50°	941.1	902.0	862.8	799.8	728.7	670.4	624.7	586.5	570.5	554.6	570.5
52.5°	868.0	833.0	797.9	737.1	667.8	609.8	562.9	522.4	500.6	478.9	500.6
55°	768.2	734.9	701.5	644.3	579.0	520.3	468.1	425.9	413.6	401.2	413.6
57.5°	665.5	636.6	607.8	556.3	497.3	444.1	396.7	358.6	348.4	338.3	348.4
60°	600.2	574.9	549.5	500.2	442.9	394.4	354.5	322.0	311.9	301.7	311.9
62.5°	537.6	515.1	492.6	445.4	389.9	346.2	314.5	288.6	280.1	271.7	280.1
65°	443.6	427.0	410.3	371.3	324.9	288.7	262.6	241.2	234.0	226.7	234.0
67.5°	352.3	343.0	333.7	304.6	268.8	239.4	216.5	198.1	193.3	188.5	193.3
70°	293.6	290.7	287.8	263.7	232.5	207.5	188.7	173.6	170.0	166.4	170.0
72.5°	242.7	243.9	245.0	225.0	197.9	176.9	162.1	150.4	148.0	145.5	148.0
75°	172.9	178.7	184.5	171.3	151.7	136.8	126.7	118.7	117.3	115.8	117.3
77.5°	117.8	126.5	135.2	126.6	112.2	101.3	93.7	87.8	86.6	85.5	86.6
80°	86.4	95.1	103.8	97.9	87.0	78.7	72.9	68.5	68.5	68.5	68.5
82.5°	60.3	67.3	74.3	70.0	62.1	56.6	53.7	51.5	51.5	51.5	51.5
85°	29.4	33.0	36.6	35.3	32.4	28.8	24.5	21.0	20.3	19.6	20.3
87.5°	9.0	12.3	15.9	15.7	14.0	12.6	12.0	12.0	12.4	12.4	12.4
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



TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

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



TEST NUMBER: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1710.4	1709.6	1709.0	1711.9	1718.3	1720.6	1710.7	1700.9	1710.7	1720.6	1718.3
5°	1711.0	1708.8	1708.1	1711.0	1717.5	1719.3	1707.0	1694.7	1707.0	1719.3	1717.5
7.5°	1710.3	1706.8	1704.4	1705.6	1710.5	1711.1	1698.6	1686.2	1698.6	1711.1	1710.5
10°	1707.5	1703.4	1699.7	1700.1	1704.4	1704.4	1691.4	1678.3	1691.4	1704.4	1704.4
12.5°	1702.3	1697.7	1693.5	1693.0	1696.2	1695.2	1681.5	1667.9	1681.5	1695.2	1696.2
15°	1689.0	1684.3	1679.3	1677.1	1677.8	1674.7	1660.2	1645.7	1660.2	1674.7	1677.8
17.5°	1653.7	1652.3	1650.9	1650.8	1651.8	1649.0	1634.5	1620.0	1634.5	1649.0	1651.8
20°	1618.0	1621.8	1626.9	1630.5	1632.7	1630.7	1616.2	1601.7	1616.2	1630.7	1632.7
22.5°	1567.3	1578.7	1592.5	1601.9	1607.0	1606.9	1591.3	1575.6	1591.3	1606.9	1607.0
25°	1471.7	1495.7	1523.9	1545.3	1559.8	1566.9	1551.7	1536.4	1551.7	1566.9	1559.8
27.5°	1359.8	1393.7	1433.8	1468.3	1497.0	1515.4	1503.1	1490.8	1503.1	1515.4	1497.0
30°	1281.6	1318.4	1362.6	1405.8	1447.8	1477.0	1467.6	1458.2	1467.6	1477.0	1447.8
32.5°	1207.0	1245.4	1291.3	1340.5	1393.0	1431.5	1427.9	1424.2	1427.9	1431.5	1393.0
35°	1097.5	1135.8	1182.1	1238.3	1304.3	1355.4	1361.9	1368.4	1361.9	1355.4	1304.3
37.5°	987.5	1027.8	1076.3	1135.8	1206.1	1263.7	1283.1	1302.6	1283.1	1263.7	1206.1
40°	914.5	954.7	1003.3	1064.2	1137.4	1199.2	1226.7	1254.3	1226.7	1199.2	1137.4
42.5°	845.2	885.6	934.1	995.0	1068.2	1131.8	1166.3	1200.8	1166.3	1131.8	1068.2
45°	743.2	782.4	829.5	890.4	965.0	1031.2	1071.8	1112.4	1071.8	1031.2	965.0
47.5°	648.5	686.0	731.7	791.8	866.3	932.3	972.6	1012.9	972.6	932.3	866.3
50°	586.5	624.7	670.4	728.7	799.8	862.8	902.0	941.1	902.0	862.8	799.8
52.5°	522.4	562.9	609.8	667.8	737.1	797.9	833.0	868.0	833.0	797.9	737.1
55°	425.9	468.1	520.3	579.0	644.3	701.5	734.9	768.2	734.9	701.5	644.3
57.5°	358.6	396.7	444.1	497.3	556.3	607.8	636.6	665.5	636.6	607.8	556.3
60°	322.0	354.5	394.4	442.9	500.2	549.5	574.9	600.2	574.9	549.5	500.2
62.5°	288.6	314.5	346.2	389.9	445.4	492.6	515.1	537.6	515.1	492.6	445.4
65°	241.2	262.6	288.7	324.9	371.3	410.3	427.0	443.6	427.0	410.3	371.3
67.5°	198.1	216.5	239.4	268.8	304.6	333.7	343.0	352.3	343.0	333.7	304.6
70°	173.6	188.7	207.5	232.5	263.7	287.8	290.7	293.6	290.7	287.8	263.7
72.5°	150.4	162.1	176.9	197.9	225.0	245.0	243.9	242.7	243.9	245.0	225.0
75°	118.7	126.7	136.8	151.7	171.3	184.5	178.7	172.9	178.7	184.5	171.3
77.5°	87.8	93.7	101.3	112.2	126.6	135.2	126.5	117.8	126.5	135.2	126.6
80°	68.5	72.9	78.7	87.0	97.9	103.8	95.1	86.4	95.1	103.8	97.9
82.5°	51.5	53.7	56.6	62.1	70.0	74.3	67.3	60.3	67.3	74.3	70.0
85°	21.0	24.5	28.8	32.4	35.3	36.6	33.0	29.4	33.0	36.6	35.3
87.5°	12.0	12.0	12.6	14.0	15.7	15.9	12.3	9.0	12.3	15.5	16.5
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: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-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: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1711.9	1709.0	1709.6	1710.4	1712.2	1713.9	1712.2	1710.4	1709.6	1709.0	1711.9
5°	1711.0	1708.1	1708.8	1711.0	1717.5	1724.0	1717.5	1711.0	1708.8	1708.1	1711.0
7.5°	1705.6	1704.4	1706.8	1710.3	1716.7	1723.0	1716.7	1710.3	1706.8	1704.4	1705.6
10°	1700.1	1699.7	1703.4	1707.5	1713.3	1719.1	1713.3	1707.5	1703.4	1699.7	1700.1
12.5°	1693.0	1693.5	1697.7	1702.3	1708.1	1713.9	1708.1	1702.3	1697.7	1693.5	1693.0
15°	1677.1	1679.3	1684.3	1689.0	1692.7	1696.3	1692.7	1689.0	1684.3	1679.3	1677.1
17.5°	1650.8	1650.9	1652.3	1653.7	1655.4	1657.1	1655.4	1653.7	1652.3	1650.9	1650.8
20°	1630.5	1626.9	1621.8	1618.0	1618.0	1618.0	1618.0	1618.0	1621.8	1626.9	1630.5
22.5°	1601.9	1592.5	1578.7	1567.3	1562.6	1558.0	1562.6	1567.3	1578.7	1592.5	1601.9
25°	1545.3	1523.9	1495.7	1471.7	1460.9	1450.0	1460.9	1471.7	1495.7	1523.9	1545.3
27.5°	1468.3	1433.8	1393.7	1359.8	1344.7	1329.6	1344.7	1359.8	1393.7	1433.8	1468.3
30°	1405.8	1362.6	1318.4	1281.6	1267.1	1252.6	1267.1	1281.6	1318.4	1362.6	1405.8
32.5°	1340.5	1291.3	1245.4	1207.0	1191.3	1175.7	1191.3	1207.0	1245.4	1291.3	1340.5
35°	1238.3	1182.1	1135.8	1097.5	1083.7	1070.0	1083.7	1097.5	1135.8	1182.1	1238.3
37.5°	1135.8	1076.3	1027.8	987.5	972.3	957.1	972.3	987.5	1027.8	1076.3	1135.8
40°	1064.2	1003.3	954.7	914.5	899.3	884.0	899.3	914.5	954.7	1003.3	1064.2
42.5°	995.0	934.1	885.6	845.2	829.4	813.6	829.4	845.2	885.6	934.1	995.0
45°	890.4	829.5	782.4	743.2	728.0	712.8	728.0	743.2	782.4	829.5	890.4
47.5°	791.8	731.7	686.0	648.5	635.5	622.4	635.5	648.5	686.0	731.7	791.8
50°	728.7	670.4	624.7	586.5	570.5	554.6	570.5	586.5	624.7	670.4	728.7
52.5°	667.8	609.8	562.9	522.4	500.6	478.9	500.6	522.4	562.9	609.8	667.8
55°	579.0	520.3	468.1	425.9	413.6	401.2	413.6	425.9	468.1	520.3	579.0
57.5°	497.3	444.1	396.7	358.6	348.4	338.3	348.4	358.6	396.7	444.1	497.3
60°	442.9	394.4	354.5	322.0	311.9	301.7	311.9	322.0	354.5	394.4	442.9
62.5°	389.9	346.2	314.5	288.6	280.1	271.7	280.1	288.6	314.5	346.2	389.9
65°	324.9	288.7	262.6	241.2	234.0	226.7	234.0	241.2	262.6	288.7	324.9
67.5°	268.8	239.4	216.5	198.1	193.3	188.5	193.3	198.1	216.5	239.4	268.8
70°	232.5	207.5	188.7	173.6	170.0	166.4	170.0	173.6	188.7	207.5	232.5
72.5°	197.9	176.9	162.1	150.4	148.0	145.5	148.0	150.4	162.1	176.9	197.9
75°	151.7	136.8	126.7	118.7	117.3	115.8	117.3	118.7	126.7	136.8	151.7
77.5°	112.2	101.3	93.7	87.8	86.6	85.5	86.6	93.7	101.3	112.2	112.2
80°	87.0	78.7	72.9	68.5	68.5	68.5	68.5	72.9	78.7	87.0	87.0
82.5°	62.1	56.6	53.7	51.5	51.5	51.5	51.5	53.7	56.6	62.1	62.1
85°	32.4	28.8	24.5	21.0	20.3	19.6	20.3	21.0	24.5	28.8	32.4
87.5°	15.5	16.4	18.5	19.6	21.2	20.4	21.2	19.6	18.5	16.4	15.5
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: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-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: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1712.6	1712.6	1712.6	1712.6
2.5°	1718.3	1720.6	1710.7	1700.9
5°	1717.5	1719.3	1707.0	1694.7
7.5°	1710.5	1711.1	1698.6	1686.2
10°	1704.4	1704.4	1691.4	1678.3
12.5°	1696.2	1695.2	1681.5	1667.9
15°	1677.8	1674.7	1660.2	1645.7
17.5°	1651.8	1649.0	1634.5	1620.0
20°	1632.7	1630.7	1616.2	1601.7
22.5°	1607.0	1606.9	1591.3	1575.6
25°	1559.8	1566.9	1551.7	1536.4
27.5°	1497.0	1515.4	1503.1	1490.8
30°	1447.8	1477.0	1467.6	1458.2
32.5°	1393.0	1431.5	1427.9	1424.2
35°	1304.3	1355.4	1361.9	1368.4
37.5°	1206.1	1263.7	1283.1	1302.6
40°	1137.4	1199.2	1226.7	1254.3
42.5°	1068.2	1131.8	1166.3	1200.8
45°	965.0	1031.2	1071.8	1112.4
47.5°	866.3	932.3	972.6	1012.9
50°	799.8	862.8	902.0	941.1
52.5°	737.1	797.9	833.0	868.0
55°	644.3	701.5	734.9	768.2
57.5°	556.3	607.8	636.6	665.5
60°	500.2	549.5	574.9	600.2
62.5°	445.4	492.6	515.1	537.6
65°	371.3	410.3	427.0	443.6
67.5°	304.6	333.7	343.0	352.3
70°	263.7	287.8	290.7	293.6
72.5°	225.0	245.0	243.9	242.7
75°	171.3	184.5	178.7	172.9
77.5°	126.6	135.2	126.5	117.8
80°	97.9	103.8	95.1	86.4
82.5°	70.0	74.3	67.3	60.3
85°	35.3	36.6	33.0	29.4
87.5°	16.5	15.5	12.3	9.0
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: P1428449

CATALOG NUMBER: SQ2W-PW1-K-125U-075D-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: P1428449
 CATALOG NUMBER: SQ2W-PW1-K-125U-075D-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	17.51	18.27	18.55	19.31	20.71	13.76	14.52	14.80	15.56	16.96
	3H	18.81	19.48	19.86	20.53	21.95	15.02	15.70	16.07	16.75	18.17
	4H	19.21	19.85	20.27	20.90	22.33	15.52	16.16	16.59	17.21	18.64
	6H	19.38	19.97	20.46	21.03	22.47	15.83	16.41	16.90	17.47	18.91
	8H	19.42	19.98	20.50	21.05	22.49	15.94	16.50	17.01	17.57	19.00
	12H	19.42	19.95	20.50	21.02	22.47	15.96	16.49	17.04	17.56	19.02
4H	2H	17.63	18.27	18.70	19.32	20.75	14.56	15.20	15.63	16.25	17.68
	3H	19.16	19.69	20.24	20.77	22.21	15.99	16.52	17.07	17.60	19.04
	4H	19.70	20.19	20.78	21.26	22.72	16.57	17.05	17.65	18.13	19.59
	6H	20.01	20.42	21.10	21.52	22.97	16.95	17.36	18.04	18.46	19.91
	8H	20.10	20.49	21.19	21.57	23.04	17.10	17.48	18.18	18.57	20.04
	12H	20.11	20.47	21.22	21.57	23.04	17.13	17.48	18.24	18.58	20.06
8H	4H	19.73	20.12	20.82	21.21	22.68	16.90	17.29	17.99	18.38	19.85
	6H	20.15	20.47	21.26	21.60	23.07	17.39	17.71	18.50	18.84	20.31
	8H	20.32	20.60	21.44	21.71	23.20	17.61	17.89	18.73	19.00	20.49
	12H	20.40	20.64	21.52	21.75	23.27	17.69	17.94	18.81	19.04	20.57
12H	4H	19.69	20.04	20.79	21.14	22.61	16.92	17.27	18.02	18.37	19.84
	6H	20.15	20.43	21.26	21.54	23.02	17.47	17.75	18.59	18.86	20.35
	8H	20.33	20.58	21.45	21.68	23.21	17.71	17.95	18.83	19.06	20.59