

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: P1428137

Luminaire Tested: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428137  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE PRISM LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

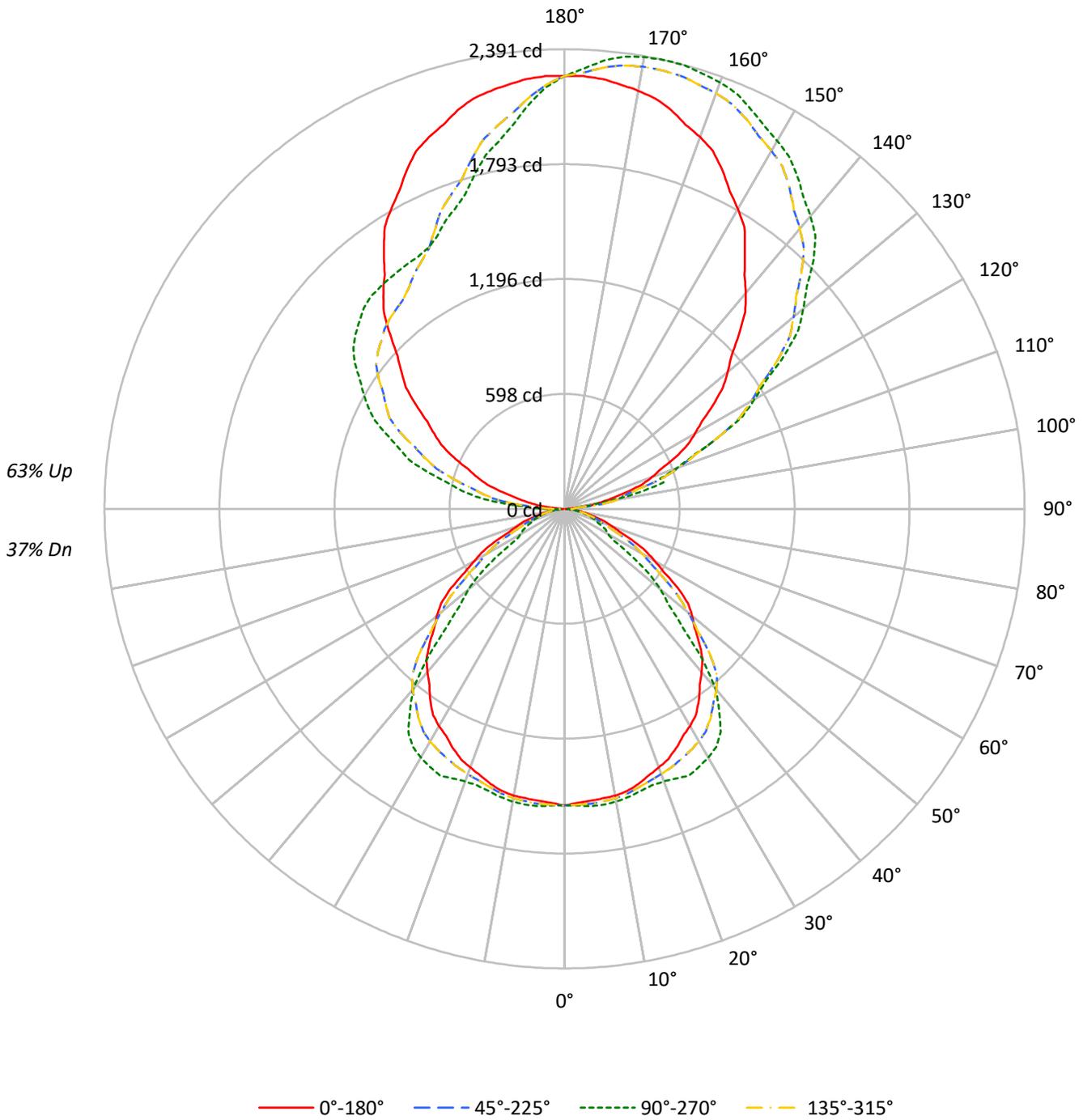
Lumens per Lamp: N/A  
Luminaire Lumens: 10469.3 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 81.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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-PP3-K-150U-075D-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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37				
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	35	34	33	27				
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24				
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	23	21	18				
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16				
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	21	19	17	14				
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

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

	0°	90°	180°	270°
0°	24913	24913	24913	24913
5°	24716	25167	24716	25167
10°	24841	25349	24841	25349
15°	24782	25409	24782	25409
20°	24606	25922	24606	25922
25°	24465	27283	24465	27283
30°	24326	27853	24326	27853
35°	23983	27904	23983	27904
40°	23342	25783	23342	25783
45°	22644	19627	22644	19627
50°	21755	16347	21755	16347
55°	20248	11752	20248	11752
60°	17434	8428	17434	8428
65°	14705	8286	14705	8286
70°	12241	7931	12241	7931
75°	10380	7430	10380	7430
80°	8796	6676	8796	6676
85°	6947	3631	6947	3631

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 24770 cd/sqm

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CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	1.4
10°-20°	425.2	4.1
20°-30°	666.2	6.4
30°-40°	821.8	7.8
40°-50°	773.6	7.4
50°-60°	547.8	5.2
60°-70°	312.1	3.0
70°-80°	154.5	1.5
80°-90°	47.1	0.4
90°-100°	179.2	1.7
100°-110°	522.6	5.0
110°-120°	852.8	8.1
120°-130°	1082.1	10.3
130°-140°	1157.9	11.1
140°-150°	1081.2	10.3
150°-160°	889.7	8.5
160°-170°	596.7	5.7
170°-180°	211.9	2.0
0°-30°	1238.3	11.8
0°-40°	2060.0	19.7
0°-60°	3381.5	32.3
0°-90°	3895.2	37.2
90°-120°	1554.5	14.8
90°-150°	4875.8	46.6
90°-180°	6574.0	62.8
0°-180°	10469.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1543	1543	1543	1543	1543	
5°	1525	1553	1525	1553	1525	145
15°	1483	1520	1483	1520	1483	418
25°	1373	1532	1373	1532	1373	633
35°	1217	1416	1217	1416	1217	759
45°	992	860	992	860	992	763
55°	719	418	719	418	719	635
65°	385	217	385	217	385	387
75°	166	119	166	119	166	180
85°	38	20	38	20	38	44
90°	7	50	7	98	7	7
95°	70	52	70	307	70	85
105°	332	532	332	732	332	353
115°	637	882	637	1087	637	628
125°	942	1399	942	1333	942	842
135°	1280	1831	1280	1476	1280	989
145°	1635	2110	1635	1508	1635	1023
155°	1942	2292	1942	1565	1942	893
165°	2147	2390	2147	1801	2147	604
175°	2245	2340	2245	2113	2245	213
180°	2252	2252	2252	2252	2252	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1531.2	1541.1	1550.9	1548.6	1542.2	1539.6	1540.8	1542.0	1543.1	1544.3	1543.1
5°	1525.0	1537.3	1549.7	1547.9	1541.3	1538.8	1540.2	1542.6	1547.7	1552.8	1547.7
7.5°	1519.2	1531.8	1544.4	1542.7	1536.4	1534.4	1536.9	1540.3	1546.5	1552.8	1546.5
10°	1515.2	1526.1	1537.0	1535.4	1529.6	1528.5	1532.1	1536.1	1541.2	1546.2	1541.2
12.5°	1503.5	1513.8	1524.1	1522.7	1517.5	1517.3	1522.1	1526.8	1531.3	1535.8	1531.3
15°	1482.6	1492.0	1501.5	1501.6	1498.7	1500.6	1507.1	1512.9	1516.5	1520.1	1516.5
17.5°	1454.2	1465.7	1477.1	1479.8	1479.5	1484.0	1493.3	1501.2	1504.9	1508.7	1504.9
20°	1432.1	1445.8	1459.6	1464.1	1465.6	1472.1	1483.7	1494.2	1501.5	1508.7	1501.5
22.5°	1408.6	1424.7	1440.8	1446.7	1449.3	1459.3	1476.7	1492.9	1505.4	1517.8	1505.4
25°	1373.3	1389.3	1405.2	1416.8	1427.0	1444.7	1470.1	1493.9	1512.7	1531.5	1512.7
27.5°	1332.2	1348.0	1363.8	1383.8	1405.1	1430.0	1458.6	1483.7	1498.7	1513.6	1498.7
30°	1304.8	1320.1	1335.3	1358.1	1383.5	1411.0	1440.8	1466.5	1480.3	1494.0	1480.3
32.5°	1270.9	1286.7	1302.5	1326.8	1353.9	1383.5	1415.5	1442.7	1455.3	1467.9	1455.3
35°	1216.8	1232.0	1247.2	1275.5	1308.1	1341.1	1374.4	1401.2	1408.5	1415.7	1408.5
37.5°	1154.5	1171.7	1189.0	1220.7	1257.2	1284.8	1303.5	1317.7	1318.1	1318.5	1318.1
40°	1107.5	1129.9	1152.4	1184.1	1218.9	1238.1	1241.8	1242.1	1232.7	1223.3	1232.7
42.5°	1061.8	1090.7	1119.5	1145.0	1169.3	1174.4	1160.0	1138.8	1096.9	1055.0	1096.9
45°	991.7	1025.7	1059.8	1075.4	1084.8	1052.9	979.7	917.6	888.6	859.6	888.6
47.5°	917.0	950.6	984.2	979.9	963.0	914.7	835.1	770.4	750.4	730.4	750.4
50°	866.1	898.0	929.9	906.9	865.5	811.2	743.8	688.5	669.6	650.8	669.6
52.5°	808.7	837.1	865.5	830.7	774.9	717.7	658.9	607.7	579.0	550.3	579.0
55°	719.3	738.9	758.4	720.4	663.1	600.0	531.2	472.6	445.1	417.5	445.1
57.5°	611.6	625.4	639.2	609.2	564.7	502.0	421.1	352.7	321.9	291.0	321.9
60°	539.9	550.7	561.6	534.4	494.6	434.8	355.0	291.4	276.2	261.0	276.2
62.5°	474.6	484.3	494.1	465.7	424.7	371.3	305.4	254.7	249.4	244.0	249.4
65°	384.9	394.3	403.8	374.1	331.3	289.6	249.0	218.4	217.7	216.9	217.7
67.5°	306.3	316.6	326.9	298.9	258.2	227.4	206.5	190.6	189.7	188.9	189.7
70°	259.3	270.2	281.1	255.0	216.6	191.6	180.0	170.9	169.4	168.0	169.4
72.5°	220.2	230.5	240.8	218.0	184.2	163.6	156.0	150.2	149.3	148.4	149.3
75°	166.4	174.3	182.3	165.8	141.2	127.0	123.4	120.5	119.8	119.1	119.8
77.5°	120.7	125.8	130.8	120.0	104.0	95.0	93.1	91.5	90.8	90.0	90.8
80°	94.6	96.8	98.9	91.3	80.5	74.7	73.9	73.2	72.5	71.8	72.5
82.5°	71.1	70.4	69.7	65.2	59.6	56.4	55.7	54.8	53.5	52.2	53.5
85°	37.5	36.1	34.6	33.2	31.7	29.5	26.6	23.9	21.7	19.6	21.7
87.5°	13.1	14.9	17.2	16.8	15.3	14.0	13.4	13.5	13.9	13.9	13.9
90°	6.8	15.9	27.3	36.4	43.2	45.5	45.5	47.8	50.0	50.0	50.0
92.5°	25.0	39.6	40.0	40.0	48.7	52.8	56.4	56.9	59.1	59.1	59.1
95°	70.5	77.3	116.0	113.7	77.3	61.4	52.3	52.3	52.3	52.3	52.3
97.5°	134.6	144.6	151.0	202.4	213.8	206.5	168.3	141.5	126.4	119.6	126.4
100°	191.0	195.6	209.2	211.5	268.4	322.9	295.7	261.5	250.2	243.3	250.2
102.5°	247.4	250.2	271.1	280.6	293.8	324.8	419.4	408.9	401.2	399.8	401.2
105°	332.0	334.3	373.0	391.2	400.3	400.3	398.0	443.5	516.3	532.2	516.3
107.5°	422.6	433.0	478.5	527.2	537.6	540.4	528.5	521.7	519.0	520.8	519.0
110°	484.4	500.3	554.9	616.3	632.2	636.8	632.2	625.4	620.9	620.9	620.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	544.5	567.7	629.5	700.0	726.9	740.5	730.5	725.5	720.9	724.6	720.9
115°	636.8	670.9	752.8	825.6	880.1	887.0	884.7	884.7	882.4	882.4	882.4
117.5°	722.3	776.9	868.8	953.4	1016.6	1034.8	1043.9	1041.2	1038.4	1043.0	1038.4
120°	782.3	846.0	950.6	1046.2	1107.6	1134.9	1144.0	1139.4	1144.0	1139.4	1144.0
122.5°	846.0	924.3	1027.1	1126.2	1198.5	1229.5	1240.4	1241.3	1242.2	1239.5	1242.2
125°	941.5	1037.1	1157.6	1259.9	1335.0	1371.4	1380.5	1382.8	1387.3	1398.7	1387.3
127.5°	1038.0	1146.2	1278.6	1377.3	1454.2	1498.3	1512.4	1517.4	1526.9	1531.9	1526.9
130°	1105.3	1228.1	1362.3	1455.5	1530.6	1578.3	1603.4	1610.2	1621.6	1619.3	1621.6
132.5°	1176.3	1304.5	1440.5	1537.4	1607.0	1658.4	1679.8	1699.3	1703.4	1706.6	1703.4
135°	1280.4	1419.1	1555.6	1651.1	1717.1	1767.1	1794.4	1812.6	1824.0	1830.8	1824.0
137.5°	1390.0	1536.5	1667.5	1752.6	1819.0	1862.2	1893.1	1912.2	1924.0	1929.5	1924.0
140°	1464.6	1605.6	1733.0	1821.7	1880.8	1924.0	1951.3	1974.1	1987.7	1987.7	1987.7
142.5°	1535.6	1674.8	1798.5	1887.2	1939.0	1978.6	2007.7	2025.0	2040.5	2040.5	2040.5
145°	1635.2	1773.9	1887.6	1976.3	2019.6	2055.9	2087.8	2101.4	2110.5	2110.5	2110.5
147.5°	1739.4	1862.2	1965.9	2050.9	2087.3	2130.1	2155.1	2166.0	2177.4	2172.4	2177.4
150°	1801.2	1914.9	2015.0	2094.6	2131.0	2171.9	2196.9	2206.0	2217.4	2210.6	2217.4
152.5°	1861.3	1969.5	2060.5	2134.6	2165.6	2206.5	2235.2	2244.2	2252.0	2247.0	2252.0
155°	1942.2	2037.7	2121.9	2190.1	2217.4	2256.1	2283.4	2294.7	2303.8	2292.5	2303.8
157.5°	2014.5	2096.9	2170.1	2232.9	2262.0	2295.2	2320.7	2334.8	2343.9	2338.9	2343.9
160°	2058.2	2133.3	2199.2	2258.3	2285.6	2315.2	2342.5	2358.4	2367.5	2360.7	2367.5
162.5°	2094.6	2162.4	2224.7	2278.4	2302.0	2327.9	2360.7	2374.8	2383.9	2375.2	2383.9
165°	2146.9	2201.5	2256.1	2301.6	2322.0	2342.5	2376.6	2392.5	2399.4	2390.3	2399.4
167.5°	2186.5	2228.3	2272.5	2311.6	2326.6	2346.6	2380.7	2393.9	2402.5	2391.2	2402.5
170°	2208.3	2244.7	2283.4	2315.2	2326.6	2344.8	2378.9	2390.3	2397.1	2385.7	2397.1
172.5°	2226.5	2253.8	2285.2	2313.4	2319.3	2333.9	2366.2	2377.5	2382.5	2373.0	2382.5
175°	2244.7	2260.6	2283.4	2301.6	2299.3	2308.4	2335.7	2344.8	2353.9	2340.2	2353.9
177.5°	2253.3	2260.6	2267.9	2278.8	2271.5	2271.5	2291.6	2297.0	2298.8	2291.6	2298.8
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1542.0	1540.8	1539.6	1542.2	1548.6	1550.9	1541.1	1531.2	1541.1	1550.9	1548.6
5°	1542.6	1540.2	1538.8	1541.3	1547.9	1549.7	1537.3	1525.0	1537.3	1549.7	1547.9
7.5°	1540.3	1536.9	1534.4	1536.4	1542.7	1544.4	1531.8	1519.2	1531.8	1544.4	1542.7
10°	1536.1	1532.1	1528.5	1529.6	1535.4	1537.0	1526.1	1515.2	1526.1	1537.0	1535.4
12.5°	1526.8	1522.1	1517.3	1517.5	1522.7	1524.1	1513.8	1503.5	1513.8	1524.1	1522.7
15°	1512.9	1507.1	1500.6	1498.7	1501.6	1501.5	1492.0	1482.6	1492.0	1501.5	1501.6
17.5°	1501.2	1493.3	1484.0	1479.5	1479.8	1477.1	1465.7	1454.2	1465.7	1477.1	1479.8
20°	1494.2	1483.7	1472.1	1465.6	1464.1	1459.6	1445.8	1432.1	1445.8	1459.6	1464.1
22.5°	1492.9	1476.7	1459.3	1449.3	1446.7	1440.8	1424.7	1408.6	1424.7	1440.8	1446.7
25°	1493.9	1470.1	1444.7	1427.0	1416.8	1405.2	1389.3	1373.3	1389.3	1405.2	1416.8
27.5°	1483.7	1458.6	1430.0	1405.1	1383.8	1363.8	1348.0	1332.2	1348.0	1363.8	1383.8
30°	1466.5	1440.8	1411.0	1383.5	1358.1	1335.3	1320.1	1304.8	1320.1	1335.3	1358.1
32.5°	1442.7	1415.5	1383.5	1353.9	1326.8	1302.5	1286.7	1270.9	1286.7	1302.5	1326.8
35°	1401.2	1374.4	1341.1	1308.1	1275.5	1247.2	1232.0	1216.8	1232.0	1247.2	1275.5
37.5°	1317.7	1303.5	1284.8	1257.2	1220.7	1189.0	1171.7	1154.5	1171.7	1189.0	1220.7
40°	1242.1	1241.8	1238.1	1218.9	1184.1	1152.4	1129.9	1107.5	1129.9	1152.4	1184.1
42.5°	1138.8	1160.0	1174.4	1169.3	1145.0	1119.5	1090.7	1061.8	1090.7	1119.5	1145.0
45°	917.6	979.7	1052.9	1084.8	1075.4	1059.8	1025.7	991.7	1025.7	1059.8	1075.4
47.5°	770.4	835.1	914.7	963.0	979.9	984.2	950.6	917.0	950.6	984.2	979.9
50°	688.5	743.8	811.2	865.5	906.9	929.9	898.0	866.1	898.0	929.9	906.9
52.5°	607.7	658.9	717.7	774.9	830.7	865.5	837.1	808.7	837.1	865.5	830.7
55°	472.6	531.2	600.0	663.1	720.4	758.4	738.9	719.3	738.9	758.4	720.4
57.5°	352.7	421.1	502.0	564.7	609.2	639.2	625.4	611.6	625.4	639.2	609.2
60°	291.4	355.0	434.8	494.6	534.4	561.6	550.7	539.9	550.7	561.6	534.4
62.5°	254.7	305.4	371.3	424.7	465.7	494.1	484.3	474.6	484.3	494.1	465.7
65°	218.4	249.0	289.6	331.3	374.1	403.8	394.3	384.9	394.3	403.8	374.1
67.5°	190.6	206.5	227.4	258.2	298.9	326.9	316.6	306.3	316.6	326.9	298.9
70°	170.9	180.0	191.6	216.6	255.0	281.1	270.2	259.3	270.2	281.1	255.0
72.5°	150.2	156.0	163.6	184.2	218.0	240.8	230.5	220.2	230.5	240.8	218.0
75°	120.5	123.4	127.0	141.2	165.8	182.3	174.3	166.4	174.3	182.3	165.8
77.5°	91.5	93.1	95.0	104.0	120.0	130.8	125.8	120.7	125.8	130.8	120.0
80°	73.2	73.9	74.7	80.5	91.3	98.9	96.8	94.6	96.8	98.9	91.3
82.5°	54.8	55.7	56.4	59.6	65.2	69.7	70.4	71.1	70.4	69.7	65.2
85°	23.9	26.6	29.5	31.7	33.2	34.6	36.1	37.5	36.1	34.6	33.2
87.5°	13.5	13.4	14.0	15.3	16.8	17.2	14.9	13.1	14.9	16.7	17.8
90°	47.8	45.5	45.5	43.2	36.4	27.3	15.9	6.8	15.9	25.0	40.9
92.5°	56.9	56.4	52.8	48.7	40.0	40.0	39.6	25.0	43.2	61.4	88.2
95°	52.3	52.3	61.4	77.3	113.7	116.0	77.3	70.5	100.1	141.0	177.4
97.5°	141.5	168.3	206.5	213.8	202.4	151.0	144.6	134.6	183.3	223.8	282.5
100°	261.5	295.7	322.9	268.4	211.5	209.2	195.6	191.0	243.3	282.0	338.9
102.5°	408.9	419.4	324.8	293.8	280.6	271.1	250.2	247.4	299.7	353.0	400.7
105°	443.5	398.0	400.3	400.3	391.2	373.0	334.3	332.0	391.2	452.6	511.7
107.5°	521.7	528.5	540.4	537.6	527.2	478.5	433.0	422.6	475.8	549.5	614.5
110°	625.4	632.2	636.8	632.2	616.3	554.9	500.3	484.4	532.2	609.5	680.0



TEST NUMBER: P1428137

CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	725.5	730.5	740.5	726.9	700.0	629.5	567.7	544.5	592.2	671.4	743.7
115°	884.7	884.7	887.0	880.1	825.6	752.8	670.9	636.8	677.7	750.5	830.1
117.5°	1041.2	1043.9	1034.8	1016.6	953.4	868.8	776.9	722.3	754.6	831.5	913.3
120°	1139.4	1144.0	1134.9	1107.6	1046.2	950.6	846.0	782.3	807.4	882.4	964.3
122.5°	1241.3	1240.4	1229.5	1198.5	1126.2	1027.1	924.3	846.0	856.5	926.1	1006.1
125°	1382.8	1380.5	1371.4	1335.0	1259.9	1157.6	1037.1	941.5	927.9	987.0	1068.9
127.5°	1517.4	1512.4	1498.3	1454.2	1377.3	1278.6	1146.2	1038.0	1007.5	1044.8	1119.9
130°	1610.2	1603.4	1578.3	1530.6	1455.5	1362.3	1228.1	1105.3	1062.1	1084.8	1150.8
132.5°	1699.3	1679.8	1658.4	1607.0	1537.4	1440.5	1304.5	1176.3	1116.7	1126.7	1178.1
135°	1812.6	1794.4	1767.1	1717.1	1651.1	1555.6	1419.1	1280.4	1198.5	1189.4	1219.0
137.5°	1912.2	1893.1	1862.2	1819.0	1752.6	1667.5	1536.5	1390.0	1286.8	1256.3	1267.7
140°	1974.1	1951.3	1924.0	1880.8	1821.7	1733.0	1605.6	1464.6	1348.6	1305.4	1298.6
142.5°	2025.0	2007.7	1978.6	1939.0	1887.2	1798.5	1674.8	1535.6	1412.3	1356.4	1340.5
145°	2101.4	2087.8	2055.9	2019.6	1976.3	1887.6	1773.9	1635.2	1512.4	1439.6	1405.5
147.5°	2166.0	2155.1	2130.1	2087.3	2050.9	1965.9	1862.2	1739.4	1613.4	1523.3	1479.2
150°	2206.0	2196.9	2171.9	2131.0	2094.6	2015.0	1914.9	1801.2	1680.7	1585.2	1528.3
152.5°	2244.2	2235.2	2206.5	2165.6	2134.6	2060.5	1969.5	1861.3	1738.9	1643.4	1584.7
155°	2294.7	2283.4	2256.1	2217.4	2190.1	2121.9	2037.7	1942.2	1837.6	1737.5	1671.6
157.5°	2334.8	2320.7	2295.2	2262.0	2232.9	2170.1	2096.9	2014.5	1923.1	1827.6	1760.3
160°	2358.4	2342.5	2315.2	2285.6	2258.3	2199.2	2133.3	2058.2	1974.1	1887.6	1814.9
162.5°	2374.8	2360.7	2327.9	2302.0	2278.4	2224.7	2162.4	2094.6	2019.6	1944.0	1876.7
165°	2392.5	2376.6	2342.5	2322.0	2301.6	2256.1	2201.5	2146.9	2083.2	2021.8	1967.2
167.5°	2393.9	2380.7	2346.6	2326.6	2311.6	2272.5	2228.3	2186.5	2136.9	2088.7	2043.2
170°	2390.3	2378.9	2344.8	2326.6	2315.2	2283.4	2244.7	2208.3	2169.7	2128.7	2092.3
172.5°	2377.5	2366.2	2333.9	2319.3	2313.4	2285.2	2253.8	2226.5	2193.3	2163.3	2134.2
175°	2344.8	2335.7	2308.4	2299.3	2301.6	2283.4	2260.6	2244.7	2224.2	2206.0	2190.1
177.5°	2297.0	2291.6	2271.5	2271.5	2278.8	2267.9	2260.6	2253.3	2244.2	2238.8	2233.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428137

CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1542.2	1539.6	1540.8	1542.0	1543.1	1544.3	1543.1	1542.0	1540.8	1539.6	1542.2
5°	1541.3	1538.8	1540.2	1542.6	1547.7	1552.8	1547.7	1542.6	1540.2	1538.8	1541.3
7.5°	1536.4	1534.4	1536.9	1540.3	1546.5	1552.8	1546.5	1540.3	1536.9	1534.4	1536.4
10°	1529.6	1528.5	1532.1	1536.1	1541.2	1546.2	1541.2	1536.1	1532.1	1528.5	1529.6
12.5°	1517.5	1517.3	1522.1	1526.8	1531.3	1535.8	1531.3	1526.8	1522.1	1517.3	1517.5
15°	1498.7	1500.6	1507.1	1512.9	1516.5	1520.1	1516.5	1512.9	1507.1	1500.6	1498.7
17.5°	1479.5	1484.0	1493.3	1501.2	1504.9	1508.7	1504.9	1501.2	1493.3	1484.0	1479.5
20°	1465.6	1472.1	1483.7	1494.2	1501.5	1508.7	1501.5	1494.2	1483.7	1472.1	1465.6
22.5°	1449.3	1459.3	1476.7	1492.9	1505.4	1517.8	1505.4	1492.9	1476.7	1459.3	1449.3
25°	1427.0	1444.7	1470.1	1493.9	1512.7	1531.5	1512.7	1493.9	1470.1	1444.7	1427.0
27.5°	1405.1	1430.0	1458.6	1483.7	1498.7	1513.6	1498.7	1483.7	1458.6	1430.0	1405.1
30°	1383.5	1411.0	1440.8	1466.5	1480.3	1494.0	1480.3	1466.5	1440.8	1411.0	1383.5
32.5°	1353.9	1383.5	1415.5	1442.7	1455.3	1467.9	1455.3	1442.7	1415.5	1383.5	1353.9
35°	1308.1	1341.1	1374.4	1401.2	1408.5	1415.7	1408.5	1401.2	1374.4	1341.1	1308.1
37.5°	1257.2	1284.8	1303.5	1317.7	1318.1	1318.5	1318.1	1317.7	1303.5	1284.8	1257.2
40°	1218.9	1238.1	1241.8	1242.1	1232.7	1223.3	1232.7	1242.1	1241.8	1238.1	1218.9
42.5°	1169.3	1174.4	1160.0	1138.8	1096.9	1055.0	1096.9	1138.8	1160.0	1174.4	1169.3
45°	1084.8	1052.9	979.7	917.6	888.6	859.6	888.6	917.6	979.7	1052.9	1084.8
47.5°	963.0	914.7	835.1	770.4	750.4	730.4	750.4	770.4	835.1	914.7	963.0
50°	865.5	811.2	743.8	688.5	669.6	650.8	669.6	688.5	743.8	811.2	865.5
52.5°	774.9	717.7	658.9	607.7	579.0	550.3	579.0	607.7	658.9	717.7	774.9
55°	663.1	600.0	531.2	472.6	445.1	417.5	445.1	472.6	531.2	600.0	663.1
57.5°	564.7	502.0	421.1	352.7	321.9	291.0	321.9	352.7	421.1	502.0	564.7
60°	494.6	434.8	355.0	291.4	276.2	261.0	276.2	291.4	355.0	434.8	494.6
62.5°	424.7	371.3	305.4	254.7	249.4	244.0	249.4	254.7	305.4	371.3	424.7
65°	331.3	289.6	249.0	218.4	217.7	216.9	217.7	218.4	249.0	289.6	331.3
67.5°	258.2	227.4	206.5	190.6	189.7	188.9	189.7	190.6	206.5	227.4	258.2
70°	216.6	191.6	180.0	170.9	169.4	168.0	169.4	170.9	180.0	191.6	216.6
72.5°	184.2	163.6	156.0	150.2	149.3	148.4	149.3	150.2	156.0	163.6	184.2
75°	141.2	127.0	123.4	120.5	119.8	119.1	119.8	120.5	123.4	127.0	141.2
77.5°	104.0	95.0	93.1	91.5	90.8	90.0	90.8	91.5	93.1	95.0	104.0
80°	80.5	74.7	73.9	73.2	72.5	71.8	72.5	73.2	73.9	74.7	80.5
82.5°	59.6	56.4	55.7	54.8	53.5	52.2	53.5	54.8	55.7	56.4	59.6
85°	31.7	29.5	26.6	23.9	21.7	19.6	21.7	23.9	26.6	29.5	31.7
87.5°	17.1	18.6	21.2	22.6	24.4	23.5	24.4	22.6	21.2	18.6	17.1
90°	52.3	68.2	84.1	93.2	102.3	97.8	102.3	93.2	84.1	68.2	52.3
92.5°	105.1	131.9	151.5	167.8	175.1	174.2	175.1	167.8	151.5	131.9	105.1
95°	211.5	243.3	275.2	297.9	311.6	307.0	311.6	297.9	275.2	243.3	211.5
97.5°	326.1	368.9	404.4	425.7	439.4	448.5	439.4	425.7	404.4	368.9	326.1
100°	402.5	443.5	484.4	509.4	532.2	541.3	532.2	509.4	484.4	443.5	402.5
102.5°	464.4	518.1	562.7	589.5	608.6	617.7	608.6	589.5	562.7	518.1	464.4
105°	566.3	623.1	670.9	705.0	725.5	732.3	725.5	705.0	670.9	623.1	566.3
107.5°	668.2	726.9	771.0	808.7	833.7	848.3	833.7	808.7	771.0	726.9	668.2
110°	748.2	796.0	843.8	877.9	902.9	912.0	902.9	877.9	843.8	796.0	748.2



TEST NUMBER: P1428137

CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	815.6	868.8	916.5	950.6	979.3	992.0	979.3	950.6	916.5	868.8	815.6
115°	909.7	980.2	1023.4	1055.3	1075.7	1087.1	1075.7	1055.3	1023.4	980.2	909.7
117.5°	987.9	1061.6	1108.9	1133.5	1143.0	1151.2	1143.0	1133.5	1108.9	1061.6	987.9
120°	1037.1	1105.3	1159.9	1191.7	1203.1	1207.6	1203.1	1191.7	1159.9	1105.3	1037.1
122.5°	1082.6	1147.1	1199.9	1239.0	1257.7	1262.2	1257.7	1239.0	1199.9	1147.1	1082.6
125°	1146.2	1207.6	1262.2	1300.9	1321.4	1332.7	1321.4	1300.9	1262.2	1207.6	1146.2
127.5°	1201.7	1268.1	1318.2	1353.2	1373.2	1382.3	1373.2	1353.2	1318.2	1268.1	1201.7
130°	1232.7	1300.9	1350.9	1389.6	1407.8	1416.9	1407.8	1389.6	1350.9	1300.9	1232.7
132.5°	1256.3	1328.2	1380.0	1415.1	1435.1	1444.2	1435.1	1415.1	1380.0	1328.2	1256.3
135°	1285.0	1360.0	1414.6	1448.7	1466.9	1476.0	1466.9	1448.7	1414.6	1360.0	1285.0
137.5°	1310.0	1378.2	1435.1	1471.0	1487.4	1493.3	1487.4	1471.0	1435.1	1378.2	1310.0
140°	1328.2	1387.3	1444.2	1478.3	1496.5	1498.7	1496.5	1478.3	1444.2	1387.3	1328.2
142.5°	1351.8	1398.2	1447.8	1481.9	1500.1	1504.2	1500.1	1481.9	1447.8	1398.2	1351.8
145°	1394.1	1421.4	1455.5	1487.4	1503.3	1507.8	1503.3	1487.4	1455.5	1421.4	1394.1
147.5°	1447.3	1456.0	1473.7	1494.6	1510.1	1513.3	1510.1	1494.6	1473.7	1456.0	1447.3
150°	1487.4	1485.1	1491.9	1505.6	1519.2	1516.9	1519.2	1505.6	1491.9	1485.1	1487.4
152.5°	1532.9	1519.7	1519.2	1525.6	1531.9	1531.5	1531.9	1525.6	1519.2	1519.7	1532.9
155°	1610.2	1585.2	1571.5	1567.0	1567.0	1564.7	1567.0	1567.0	1571.5	1585.2	1610.2
157.5°	1695.2	1660.2	1639.7	1628.8	1625.6	1620.6	1625.6	1628.8	1639.7	1660.2	1695.2
160°	1753.5	1714.8	1694.3	1676.1	1669.3	1662.5	1669.3	1676.1	1694.3	1714.8	1753.5
162.5°	1808.0	1771.2	1748.9	1732.5	1725.7	1715.3	1725.7	1732.5	1748.9	1771.2	1808.0
165°	1896.7	1858.1	1833.1	1819.4	1810.3	1801.2	1810.3	1819.4	1833.1	1858.1	1896.7
167.5°	1985.4	1943.1	1926.8	1911.3	1902.7	1886.3	1902.7	1911.3	1926.8	1943.1	1985.4
170°	2040.0	2001.4	1992.3	1978.6	1962.7	1944.5	1962.7	1978.6	1992.3	2001.4	2040.0
172.5°	2087.3	2061.4	2052.3	2038.7	2033.7	2019.1	2033.7	2038.7	2052.3	2061.4	2087.3
175°	2156.0	2135.5	2135.5	2133.3	2126.4	2112.8	2126.4	2133.3	2135.5	2135.5	2156.0
177.5°	2213.3	2202.4	2209.7	2209.7	2207.9	2195.1	2207.9	2209.7	2209.7	2202.4	2213.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428137

CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1543.0	1543.0	1543.0	1543.0
2.5°	1548.6	1550.9	1541.1	1531.2
5°	1547.9	1549.7	1537.3	1525.0
7.5°	1542.7	1544.4	1531.8	1519.2
10°	1535.4	1537.0	1526.1	1515.2
12.5°	1522.7	1524.1	1513.8	1503.5
15°	1501.6	1501.5	1492.0	1482.6
17.5°	1479.8	1477.1	1465.7	1454.2
20°	1464.1	1459.6	1445.8	1432.1
22.5°	1446.7	1440.8	1424.7	1408.6
25°	1416.8	1405.2	1389.3	1373.3
27.5°	1383.8	1363.8	1348.0	1332.2
30°	1358.1	1335.3	1320.1	1304.8
32.5°	1326.8	1302.5	1286.7	1270.9
35°	1275.5	1247.2	1232.0	1216.8
37.5°	1220.7	1189.0	1171.7	1154.5
40°	1184.1	1152.4	1129.9	1107.5
42.5°	1145.0	1119.5	1090.7	1061.8
45°	1075.4	1059.8	1025.7	991.7
47.5°	979.9	984.2	950.6	917.0
50°	906.9	929.9	898.0	866.1
52.5°	830.7	865.5	837.1	808.7
55°	720.4	758.4	738.9	719.3
57.5°	609.2	639.2	625.4	611.6
60°	534.4	561.6	550.7	539.9
62.5°	465.7	494.1	484.3	474.6
65°	374.1	403.8	394.3	384.9
67.5°	298.9	326.9	316.6	306.3
70°	255.0	281.1	270.2	259.3
72.5°	218.0	240.8	230.5	220.2
75°	165.8	182.3	174.3	166.4
77.5°	120.0	130.8	125.8	120.7
80°	91.3	98.9	96.8	94.6
82.5°	65.2	69.7	70.4	71.1
85°	33.2	34.6	36.1	37.5
87.5°	17.8	16.7	14.9	13.1
90°	40.9	25.0	15.9	6.8
92.5°	88.2	61.4	43.2	25.0
95°	177.4	141.0	100.1	70.5
97.5°	282.5	223.8	183.3	134.6
100°	338.9	282.0	243.3	191.0
102.5°	400.7	353.0	299.7	247.4
105°	511.7	452.6	391.2	332.0
107.5°	614.5	549.5	475.8	422.6
110°	680.0	609.5	532.2	484.4



TEST NUMBER: P1428137

CATALOG NUMBER: SQ2W-PP3-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	743.7	671.4	592.2	544.5
115°	830.1	750.5	677.7	636.8
117.5°	913.3	831.5	754.6	722.3
120°	964.3	882.4	807.4	782.3
122.5°	1006.1	926.1	856.5	846.0
125°	1068.9	987.0	927.9	941.5
127.5°	1119.9	1044.8	1007.5	1038.0
130°	1150.8	1084.8	1062.1	1105.3
132.5°	1178.1	1126.7	1116.7	1176.3
135°	1219.0	1189.4	1198.5	1280.4
137.5°	1267.7	1256.3	1286.8	1390.0
140°	1298.6	1305.4	1348.6	1464.6
142.5°	1340.5	1356.4	1412.3	1535.6
145°	1405.5	1439.6	1512.4	1635.2
147.5°	1479.2	1523.3	1613.4	1739.4
150°	1528.3	1585.2	1680.7	1801.2
152.5°	1584.7	1643.4	1738.9	1861.3
155°	1671.6	1737.5	1837.6	1942.2
157.5°	1760.3	1827.6	1923.1	2014.5
160°	1814.9	1887.6	1974.1	2058.2
162.5°	1876.7	1944.0	2019.6	2094.6
165°	1967.2	2021.8	2083.2	2146.9
167.5°	2043.2	2088.7	2136.9	2186.5
170°	2092.3	2128.7	2169.7	2208.3
172.5°	2134.2	2163.3	2193.3	2226.5
175°	2190.1	2206.0	2224.2	2244.7
177.5°	2233.3	2238.8	2244.2	2253.3
180°	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1428137  
 CATALOG NUMBER: SQ2W-PP3-K-150U-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	17.30	18.03	18.36	19.10	20.54	13.07	13.80	14.13	14.87	16.31
	3H	18.35	19.00	19.42	20.08	21.54	14.37	15.02	15.44	16.10	17.56
	4H	18.71	19.33	19.80	20.41	21.88	14.92	15.54	16.00	16.61	18.08
	6H	18.90	19.47	19.99	20.55	22.03	15.28	15.85	16.37	16.93	18.41
	8H	18.96	19.50	20.05	20.59	22.07	15.40	15.94	16.50	17.04	18.51
	12H	18.97	19.49	20.08	20.58	22.08	15.43	15.95	16.53	17.04	18.53
4H	2H	17.40	18.02	18.49	19.10	20.57	13.96	14.58	15.05	15.66	17.13
	3H	18.68	19.20	19.78	20.30	21.78	15.37	15.89	16.47	16.99	18.47
	4H	19.18	19.66	20.29	20.75	22.25	15.99	16.46	17.09	17.55	19.06
	6H	19.49	19.90	20.60	21.01	22.51	16.43	16.83	17.54	17.95	19.44
	8H	19.60	19.98	20.71	21.09	22.60	16.59	16.97	17.71	18.08	19.59
	12H	19.64	19.98	20.77	21.10	22.62	16.64	16.98	17.77	18.10	19.62
8H	4H	19.19	19.57	20.31	20.68	22.19	16.29	16.67	17.40	17.77	19.29
	6H	19.60	19.92	20.74	21.06	22.57	16.84	17.16	17.98	18.30	19.81
	8H	19.78	20.06	20.92	21.19	22.72	17.09	17.36	18.23	18.49	20.02
	12H	19.87	20.12	21.02	21.24	22.81	17.19	17.43	18.33	18.55	20.12
12H	4H	19.15	19.49	20.28	20.61	22.13	16.29	16.64	17.42	17.76	19.27
	6H	19.59	19.87	20.73	21.00	22.53	16.91	17.18	18.05	18.31	19.84
	8H	19.79	20.03	20.93	21.15	22.72	17.18	17.42	18.32	18.55	20.11