

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: P1428433

Luminaire Tested: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428433  
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-100U-100D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

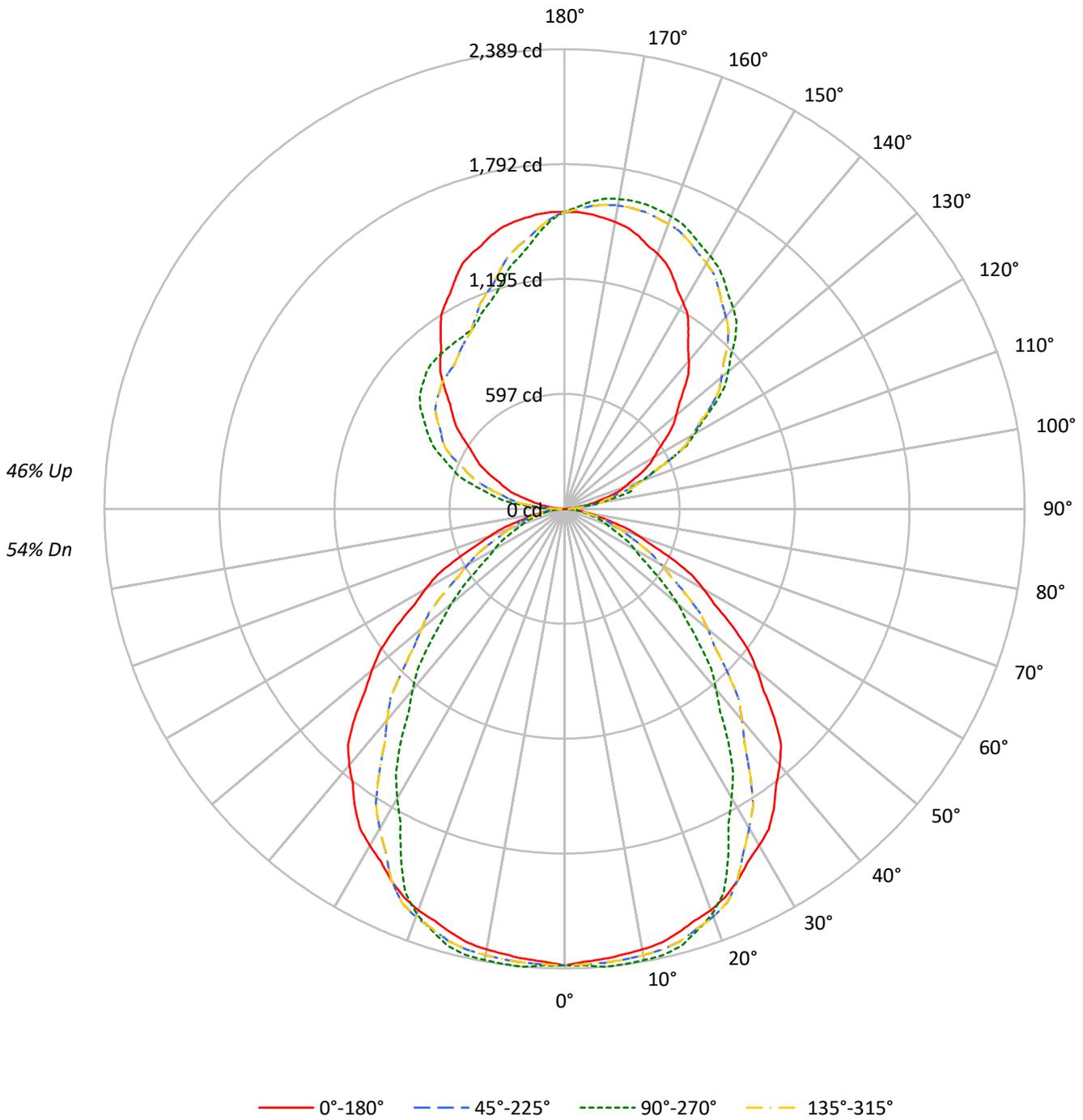
Lumens per Lamp: N/A  
Luminaire Lumens: 9778.6 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.7  
Input Voltage (V): 120  
Input Current (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-PW1-K-100U-100D-L840-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	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	74	72	64	63	61	54	53	52	47
2	91	84	78	73	84	78	73	69	67	63	60	57	55	52	48	46	44	40
3	83	74	67	62	77	69	63	58	60	55	51	51	48	45	43	41	39	35
4	77	66	58	53	71	62	55	50	54	48	44	46	42	39	39	36	34	30
5	70	59	51	45	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	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	44	36	31	52	41	35	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	46	35	29	24	31	26	22	27	23	20	23	20	18	16

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

	0°	90°	180°	270°
0°	38320	38320	38320	38320
5°	38063	38722	38063	38722
10°	38132	39059	38132	39059
15°	38122	39294	38122	39294
20°	38138	38527	38138	38527
25°	37933	35799	37933	35799
30°	37674	32365	37674	32365
35°	37380	29226	37380	29226
40°	36635	25821	36635	25821
45°	35200	22555	35200	22555
50°	32759	19303	32759	19303
55°	29967	15654	29967	15654
60°	26860	13504	26860	13504
65°	23488	12004	23488	12004
70°	19208	10886	19208	10886
75°	14947	10012	14947	10012
80°	11139	8824	11139	8824
85°	7540	5020	7540	5020

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 35200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	2.3
10°-20°	654.8	6.7
20°-30°	963.7	9.9
30°-40°	1053.6	10.8
40°-50°	945.2	9.7
50°-60°	705.1	7.2
60°-70°	445.6	4.6
70°-80°	220.8	2.3
80°-90°	58.1	0.6
90°-100°	122.8	1.3
100°-110°	358.2	3.7
110°-120°	584.5	6.0
120°-130°	741.7	7.6
130°-140°	793.6	8.1
140°-150°	741.1	7.6
150°-160°	609.8	6.2
160°-170°	409.0	4.2
170°-180°	145.2	1.5
0°-30°	1844.5	18.9
0°-40°	2898.1	29.6
0°-60°	4548.4	46.5
0°-90°	5272.8	53.9
90°-120°	1065.5	10.9
90°-150°	3341.8	34.2
90°-180°	4506.0	46.1
0°-180°	9778.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2373	2373	2373	2373	2373	
5°	2348	2389	2348	2389	2348	223
15°	2281	2351	2281	2351	2281	644
25°	2129	2010	2129	2010	2129	981
35°	1896	1483	1896	1483	1896	1183
45°	1542	988	1542	988	1542	1182
55°	1065	556	1065	556	1065	951
65°	615	314	615	314	615	609
75°	240	160	240	160	240	264
85°	41	27	41	27	41	52
90°	5	34	5	67	5	5
95°	48	36	48	210	48	58
105°	228	365	228	502	228	242
115°	436	605	436	745	436	430
125°	645	959	645	913	645	577
135°	878	1255	878	1012	878	678
145°	1121	1446	1121	1034	1121	701
155°	1331	1571	1331	1072	1331	612
165°	1472	1638	1472	1235	1472	414
175°	1538	1604	1538	1448	1538	146
180°	1543	1543	1543	1543	1543	



TEST NUMBER: P1428433

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2357.1	2370.8	2384.4	2381.2	2372.4	2368.4	2369.2	2370.4	2372.8	2375.2	2372.8
5°	2348.5	2365.6	2382.7	2380.2	2371.1	2367.1	2368.1	2371.1	2380.2	2389.2	2380.2
7.5°	2336.8	2354.1	2371.3	2370.5	2363.7	2362.0	2365.4	2370.2	2379.0	2387.9	2379.0
10°	2325.9	2344.0	2362.1	2362.1	2356.1	2355.6	2360.6	2366.4	2374.4	2382.4	2374.4
12.5°	2311.5	2330.4	2349.2	2350.6	2346.2	2346.9	2352.8	2359.1	2367.2	2375.2	2367.2
15°	2280.7	2300.8	2320.9	2325.2	2324.2	2327.2	2334.2	2340.7	2345.8	2350.8	2345.8
17.5°	2245.0	2265.1	2285.2	2289.2	2287.8	2288.0	2289.8	2291.7	2294.1	2296.5	2294.1
20°	2219.7	2239.8	2259.9	2262.6	2259.6	2254.6	2247.6	2242.3	2242.3	2242.3	2242.3
22.5°	2183.5	2205.2	2226.9	2227.1	2220.0	2207.0	2187.9	2172.0	2165.5	2159.1	2165.5
25°	2129.3	2150.4	2171.5	2161.7	2141.6	2111.9	2072.8	2039.6	2024.5	2009.5	2024.5
27.5°	2066.0	2083.1	2100.1	2074.6	2034.8	1987.1	1931.4	1884.5	1863.6	1842.7	1863.6
30°	2020.8	2033.8	2046.9	2006.5	1948.2	1888.4	1827.1	1776.2	1756.1	1736.0	1756.1
32.5°	1973.8	1978.8	1983.8	1930.5	1857.8	1789.6	1725.9	1672.7	1651.0	1629.3	1651.0
35°	1896.5	1887.4	1878.4	1807.5	1716.1	1638.3	1574.0	1521.0	1501.9	1482.8	1501.9
37.5°	1805.1	1778.2	1751.3	1671.5	1574.0	1491.6	1424.3	1368.6	1347.5	1326.4	1347.5
40°	1738.2	1700.1	1661.9	1576.2	1474.8	1390.4	1323.1	1267.3	1246.2	1225.1	1246.2
42.5°	1664.1	1616.3	1568.5	1480.4	1378.9	1294.5	1227.2	1171.3	1149.4	1127.5	1149.4
45°	1541.6	1485.3	1429.1	1337.4	1233.9	1149.5	1084.2	1030.0	1008.9	987.8	1008.9
47.5°	1403.7	1347.8	1292.0	1200.6	1097.3	1014.0	950.7	898.7	880.6	862.6	880.6
50°	1304.2	1250.0	1195.7	1108.3	1009.9	929.0	865.7	812.7	790.6	768.5	790.6
52.5°	1203.0	1154.4	1105.7	1021.5	925.5	845.0	780.1	723.9	693.8	663.6	693.8
55°	1064.6	1018.4	972.2	892.8	802.4	721.1	648.7	590.2	573.1	556.1	573.1
57.5°	922.2	882.3	842.3	770.9	689.2	615.4	549.7	496.9	482.9	468.8	482.9
60°	831.8	796.7	761.5	693.2	613.8	546.5	491.3	446.3	432.2	418.2	432.2
62.5°	745.0	713.9	682.7	617.2	540.3	479.8	435.8	399.9	388.2	376.6	388.2
65°	614.8	591.7	568.6	514.6	450.3	400.1	363.9	334.3	324.2	314.2	324.2
67.5°	488.2	475.4	462.5	422.1	372.5	331.8	300.0	274.6	267.9	261.3	267.9
70°	406.9	402.8	398.8	365.4	322.2	287.6	261.5	240.6	235.6	230.6	235.6
72.5°	336.3	338.0	339.6	311.8	274.2	245.2	224.7	208.5	205.0	201.6	205.0
75°	239.6	247.6	255.7	237.3	210.2	189.6	175.6	164.5	162.5	160.5	162.5
77.5°	163.2	175.3	187.3	175.4	155.5	140.3	129.9	121.7	120.1	118.4	120.1
80°	119.8	131.9	143.9	135.6	120.6	109.0	101.0	94.9	94.9	94.9	94.9
82.5°	83.6	93.3	102.9	97.0	86.0	78.5	74.4	71.4	71.4	71.4	71.4
85°	40.7	45.7	50.7	49.0	45.0	39.9	33.9	29.1	28.1	27.1	28.1
87.5°	11.8	15.4	19.4	18.2	15.2	13.1	12.3	12.0	12.3	12.3	12.3
90°	4.7	10.9	18.7	24.9	29.6	31.2	31.2	32.7	34.3	34.3	34.3
92.5°	17.1	27.1	27.4	27.4	33.4	36.2	38.7	39.0	40.5	40.5	40.5
95°	48.3	53.0	79.5	77.9	53.0	42.1	35.9	35.9	35.9	35.9	35.9
97.5°	92.3	99.1	103.5	138.7	146.5	141.5	115.3	97.0	86.7	82.0	86.7
100°	130.9	134.1	143.4	145.0	183.9	221.3	202.6	179.3	171.5	166.8	171.5
102.5°	169.6	171.5	185.8	192.4	201.4	222.6	287.4	280.3	275.0	274.0	275.0
105°	227.6	229.1	255.6	268.1	274.3	274.3	272.8	304.0	353.8	364.8	353.8
107.5°	289.6	296.8	328.0	361.3	368.5	370.4	362.3	357.6	355.7	357.0	355.7
110°	332.0	342.9	380.3	422.4	433.3	436.5	433.3	428.7	425.5	425.5	425.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	373.2	389.1	431.5	479.8	498.2	507.5	500.7	497.2	494.1	496.6	494.1
115°	436.5	459.8	516.0	565.8	603.2	607.9	606.4	606.4	604.8	604.8	604.8
117.5°	495.1	532.5	595.5	653.4	696.8	709.2	715.5	713.6	711.7	714.9	711.7
120°	536.2	579.9	651.6	717.0	759.1	777.8	784.1	780.9	784.1	780.9	784.1
122.5°	579.9	633.5	703.9	771.9	821.5	842.7	850.2	850.8	851.4	849.5	851.4
125°	645.3	710.8	793.4	863.6	915.0	939.9	946.2	947.7	950.9	958.6	950.9
127.5°	711.4	785.6	876.3	944.0	996.7	1026.9	1036.6	1040.0	1046.6	1050.0	1046.6
130°	757.6	841.7	933.7	997.6	1049.1	1081.8	1098.9	1103.6	1111.4	1109.8	1111.4
132.5°	806.2	894.1	987.3	1053.7	1101.4	1136.7	1151.3	1164.7	1167.5	1169.7	1167.5
135°	877.6	972.7	1066.2	1131.7	1176.9	1211.2	1229.9	1242.3	1250.1	1254.8	1250.1
137.5°	952.7	1053.1	1142.9	1201.2	1246.7	1276.3	1297.5	1310.6	1318.7	1322.5	1318.7
140°	1003.9	1100.5	1187.8	1248.6	1289.1	1318.7	1337.4	1353.0	1362.4	1362.4	1362.4
142.5°	1052.5	1147.9	1232.7	1293.5	1329.0	1356.1	1376.1	1387.9	1398.5	1398.5	1398.5
145°	1120.8	1215.8	1293.8	1354.6	1384.2	1409.1	1431.0	1440.3	1446.5	1446.5	1446.5
147.5°	1192.2	1276.3	1347.4	1405.7	1430.6	1459.9	1477.1	1484.6	1492.4	1488.9	1492.4
150°	1234.6	1312.5	1381.1	1435.6	1460.6	1488.6	1505.8	1512.0	1519.8	1515.1	1519.8
152.5°	1275.7	1349.9	1412.3	1463.1	1484.3	1512.3	1532.0	1538.2	1543.5	1540.1	1543.5
155°	1331.2	1396.7	1454.3	1501.1	1519.8	1546.3	1565.0	1572.8	1579.0	1571.2	1579.0
157.5°	1380.8	1437.2	1487.4	1530.4	1550.4	1573.1	1590.6	1600.2	1606.5	1603.0	1606.5
160°	1410.7	1462.1	1507.3	1547.9	1566.6	1586.8	1605.5	1616.5	1622.7	1618.0	1622.7
162.5°	1435.6	1482.1	1524.8	1561.6	1577.8	1595.6	1618.0	1627.7	1633.9	1628.0	1633.9
165°	1471.5	1508.9	1546.3	1577.5	1591.5	1605.5	1628.9	1639.8	1644.5	1638.3	1644.5
167.5°	1498.6	1527.3	1557.5	1584.3	1594.6	1608.3	1631.7	1640.8	1646.7	1638.9	1646.7
170°	1513.6	1538.5	1565.0	1586.8	1594.6	1607.1	1630.5	1638.3	1643.0	1635.2	1643.0
172.5°	1526.0	1544.7	1566.3	1585.6	1589.6	1599.6	1621.8	1629.5	1633.0	1626.4	1633.0
175°	1538.5	1549.4	1565.0	1577.5	1575.9	1582.2	1600.9	1607.1	1613.3	1604.0	1613.3
177.5°	1544.4	1549.4	1554.4	1561.9	1556.9	1556.9	1570.6	1574.4	1575.6	1570.6	1575.6
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2370.4	2369.2	2368.4	2372.4	2381.2	2384.4	2370.8	2357.1	2370.8	2384.4	2381.2
5°	2371.1	2368.1	2367.1	2371.1	2380.2	2382.7	2365.6	2348.5	2365.6	2382.7	2380.2
7.5°	2370.2	2365.4	2362.0	2363.7	2370.5	2371.3	2354.1	2336.8	2354.1	2371.3	2370.5
10°	2366.4	2360.6	2355.6	2356.1	2362.1	2362.1	2344.0	2325.9	2344.0	2362.1	2362.1
12.5°	2359.1	2352.8	2346.9	2346.2	2350.6	2349.2	2330.4	2311.5	2330.4	2349.2	2350.6
15°	2340.7	2334.2	2327.2	2324.2	2325.2	2320.9	2300.8	2280.7	2300.8	2320.9	2325.2
17.5°	2291.7	2289.8	2288.0	2287.8	2289.2	2285.2	2265.1	2245.0	2265.1	2285.2	2289.2
20°	2242.3	2247.6	2254.6	2259.6	2262.6	2259.9	2239.8	2219.7	2239.8	2259.9	2262.6
22.5°	2172.0	2187.9	2207.0	2220.0	2227.1	2226.9	2205.2	2183.5	2205.2	2226.9	2227.1
25°	2039.6	2072.8	2111.9	2141.6	2161.7	2171.5	2150.4	2129.3	2150.4	2171.5	2161.7
27.5°	1884.5	1931.4	1987.1	2034.8	2074.6	2100.1	2083.1	2066.0	2083.1	2100.1	2074.6
30°	1776.2	1827.1	1888.4	1948.2	2006.5	2046.9	2033.8	2020.8	2033.8	2046.9	2006.5
32.5°	1672.7	1725.9	1789.6	1857.8	1930.5	1983.8	1978.8	1973.8	1978.8	1983.8	1930.5
35°	1521.0	1574.0	1638.3	1716.1	1807.5	1878.4	1887.4	1896.5	1887.4	1878.4	1807.5
37.5°	1368.6	1424.3	1491.6	1574.0	1671.5	1751.3	1778.2	1805.1	1778.2	1751.3	1671.5
40°	1267.3	1323.1	1390.4	1474.8	1576.2	1661.9	1700.1	1738.2	1700.1	1661.9	1576.2
42.5°	1171.3	1227.2	1294.5	1378.9	1480.4	1568.5	1616.3	1664.1	1616.3	1568.5	1480.4
45°	1030.0	1084.2	1149.5	1233.9	1337.4	1429.1	1485.3	1541.6	1485.3	1429.1	1337.4
47.5°	898.7	950.7	1014.0	1097.3	1200.6	1292.0	1347.8	1403.7	1347.8	1292.0	1200.6
50°	812.7	865.7	929.0	1009.9	1108.3	1195.7	1250.0	1304.2	1250.0	1195.7	1108.3
52.5°	723.9	780.1	845.0	925.5	1021.5	1105.7	1154.4	1203.0	1154.4	1105.7	1021.5
55°	590.2	648.7	721.1	802.4	892.8	972.2	1018.4	1064.6	1018.4	972.2	892.8
57.5°	496.9	549.7	615.4	689.2	770.9	842.3	882.3	922.2	882.3	842.3	770.9
60°	446.3	491.3	546.5	613.8	693.2	761.5	796.7	831.8	796.7	761.5	693.2
62.5°	399.9	435.8	479.8	540.3	617.2	682.7	713.9	745.0	713.9	682.7	617.2
65°	334.3	363.9	400.1	450.3	514.6	568.6	591.7	614.8	591.7	568.6	514.6
67.5°	274.6	300.0	331.8	372.5	422.1	462.5	475.4	488.2	475.4	462.5	422.1
70°	240.6	261.5	287.6	322.2	365.4	398.8	402.8	406.9	402.8	398.8	365.4
72.5°	208.5	224.7	245.2	274.2	311.8	339.6	338.0	336.3	338.0	339.6	311.8
75°	164.5	175.6	189.6	210.2	237.3	255.7	247.6	239.6	247.6	255.7	237.3
77.5°	121.7	129.9	140.3	155.5	175.4	187.3	175.3	163.2	175.3	187.3	175.4
80°	94.9	101.0	109.0	120.6	135.6	143.9	131.9	119.8	131.9	143.9	135.6
82.5°	71.4	74.4	78.5	86.0	97.0	102.9	93.3	83.6	93.3	102.9	97.0
85°	29.1	33.9	39.9	45.0	49.0	50.7	45.7	40.7	45.7	50.7	49.0
87.5°	12.0	12.3	13.1	15.2	18.2	19.4	15.4	11.8	15.4	19.1	18.9
90°	32.7	31.2	31.2	29.6	24.9	18.7	10.9	4.7	10.9	17.1	28.1
92.5°	39.0	38.7	36.2	33.4	27.4	27.4	27.1	17.1	29.6	42.1	60.5
95°	35.9	35.9	42.1	53.0	77.9	79.5	53.0	48.3	68.6	96.6	121.6
97.5°	97.0	115.3	141.5	146.5	138.7	103.5	99.1	92.3	125.6	153.4	193.6
100°	179.3	202.6	221.3	183.9	145.0	143.4	134.1	130.9	166.8	193.3	232.3
102.5°	280.3	287.4	222.6	201.4	192.4	185.8	171.5	169.6	205.4	241.9	274.7
105°	304.0	272.8	274.3	274.3	268.1	255.6	229.1	227.6	268.1	310.2	350.7
107.5°	357.6	362.3	370.4	368.5	361.3	328.0	296.8	289.6	326.1	376.6	421.2
110°	428.7	433.3	436.5	433.3	422.4	380.3	342.9	332.0	364.8	417.8	466.1



TEST NUMBER: P1428433

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	497.2	500.7	507.5	498.2	479.8	431.5	389.1	373.2	405.9	460.2	509.7
115°	606.4	606.4	607.9	603.2	565.8	516.0	459.8	436.5	464.5	514.4	569.0
117.5°	713.6	715.5	709.2	696.8	653.4	595.5	532.5	495.1	517.2	569.9	626.0
120°	780.9	784.1	777.8	759.1	717.0	651.6	579.9	536.2	553.4	604.8	660.9
122.5°	850.8	850.2	842.7	821.5	771.9	703.9	633.5	579.9	587.0	634.7	689.6
125°	947.7	946.2	939.9	915.0	863.6	793.4	710.8	645.3	636.0	676.5	732.6
127.5°	1040.0	1036.6	1026.9	996.7	944.0	876.3	785.6	711.4	690.5	716.1	767.5
130°	1103.6	1098.9	1081.8	1049.1	997.6	933.7	841.7	757.6	727.9	743.5	788.7
132.5°	1164.7	1151.3	1136.7	1101.4	1053.7	987.3	894.1	806.2	765.4	772.2	807.4
135°	1242.3	1229.9	1211.2	1176.9	1131.7	1066.2	972.7	877.6	821.5	815.2	835.5
137.5°	1310.6	1297.5	1276.3	1246.7	1201.2	1142.9	1053.1	952.7	882.0	861.1	868.9
140°	1353.0	1337.4	1318.7	1289.1	1248.6	1187.8	1100.5	1003.9	924.4	894.7	890.1
142.5°	1387.9	1376.1	1356.1	1329.0	1293.5	1232.7	1147.9	1052.5	968.0	929.7	918.7
145°	1440.3	1431.0	1409.1	1384.2	1354.6	1293.8	1215.8	1120.8	1036.6	986.7	963.3
147.5°	1484.6	1477.1	1459.9	1430.6	1405.7	1347.4	1276.3	1192.2	1105.8	1044.1	1013.8
150°	1512.0	1505.8	1488.6	1460.6	1435.6	1381.1	1312.5	1234.6	1151.9	1086.5	1047.5
152.5°	1538.2	1532.0	1512.3	1484.3	1463.1	1412.3	1349.9	1275.7	1191.8	1126.4	1086.2
155°	1572.8	1565.0	1546.3	1519.8	1501.1	1454.3	1396.7	1331.2	1259.5	1190.9	1145.7
157.5°	1600.2	1590.6	1573.1	1550.4	1530.4	1487.4	1437.2	1380.8	1318.1	1252.6	1206.5
160°	1616.5	1605.5	1586.8	1566.6	1547.9	1507.3	1462.1	1410.7	1353.0	1293.8	1243.9
162.5°	1627.7	1618.0	1595.6	1577.8	1561.6	1524.8	1482.1	1435.6	1384.2	1332.4	1286.3
165°	1639.8	1628.9	1605.5	1591.5	1577.5	1546.3	1508.9	1471.5	1427.8	1385.8	1348.3
167.5°	1640.8	1631.7	1608.3	1594.6	1584.3	1557.5	1527.3	1498.6	1464.6	1431.6	1400.4
170°	1638.3	1630.5	1607.1	1594.6	1586.8	1565.0	1538.5	1513.6	1487.1	1459.0	1434.1
172.5°	1629.5	1621.8	1599.6	1589.6	1585.6	1566.3	1544.7	1526.0	1503.3	1482.7	1462.8
175°	1607.1	1600.9	1582.2	1575.9	1577.5	1565.0	1549.4	1538.5	1524.5	1512.0	1501.1
177.5°	1574.4	1570.6	1556.9	1556.9	1561.9	1554.4	1549.4	1544.4	1538.2	1534.5	1530.7
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428433

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2372.4	2368.4	2369.2	2370.4	2372.8	2375.2	2372.8	2370.4	2369.2	2368.4	2372.4
5°	2371.1	2367.1	2368.1	2371.1	2380.2	2389.2	2380.2	2371.1	2368.1	2367.1	2371.1
7.5°	2363.7	2362.0	2365.4	2370.2	2379.0	2387.9	2379.0	2370.2	2365.4	2362.0	2363.7
10°	2356.1	2355.6	2360.6	2366.4	2374.4	2382.4	2374.4	2366.4	2360.6	2355.6	2356.1
12.5°	2346.2	2346.9	2352.8	2359.1	2367.2	2375.2	2367.2	2359.1	2352.8	2346.9	2346.2
15°	2324.2	2327.2	2334.2	2340.7	2345.8	2350.8	2345.8	2340.7	2334.2	2327.2	2324.2
17.5°	2287.8	2288.0	2289.8	2291.7	2294.1	2296.5	2294.1	2291.7	2289.8	2288.0	2287.8
20°	2259.6	2254.6	2247.6	2242.3	2242.3	2242.3	2242.3	2242.3	2247.6	2254.6	2259.6
22.5°	2220.0	2207.0	2187.9	2172.0	2165.5	2159.1	2165.5	2172.0	2187.9	2207.0	2220.0
25°	2141.6	2111.9	2072.8	2039.6	2024.5	2009.5	2024.5	2039.6	2072.8	2111.9	2141.6
27.5°	2034.8	1987.1	1931.4	1884.5	1863.6	1842.7	1863.6	1884.5	1931.4	1987.1	2034.8
30°	1948.2	1888.4	1827.1	1776.2	1756.1	1736.0	1756.1	1776.2	1827.1	1888.4	1948.2
32.5°	1857.8	1789.6	1725.9	1672.7	1651.0	1629.3	1651.0	1672.7	1725.9	1789.6	1857.8
35°	1716.1	1638.3	1574.0	1521.0	1501.9	1482.8	1501.9	1521.0	1574.0	1638.3	1716.1
37.5°	1574.0	1491.6	1424.3	1368.6	1347.5	1326.4	1347.5	1368.6	1424.3	1491.6	1574.0
40°	1474.8	1390.4	1323.1	1267.3	1246.2	1225.1	1246.2	1267.3	1323.1	1390.4	1474.8
42.5°	1378.9	1294.5	1227.2	1171.3	1149.4	1127.5	1149.4	1171.3	1227.2	1294.5	1378.9
45°	1233.9	1149.5	1084.2	1030.0	1008.9	987.8	1008.9	1030.0	1084.2	1149.5	1233.9
47.5°	1097.3	1014.0	950.7	898.7	880.6	862.6	880.6	898.7	950.7	1014.0	1097.3
50°	1009.9	929.0	865.7	812.7	790.6	768.5	790.6	812.7	865.7	929.0	1009.9
52.5°	925.5	845.0	780.1	723.9	693.8	663.6	693.8	723.9	780.1	845.0	925.5
55°	802.4	721.1	648.7	590.2	573.1	556.1	573.1	590.2	648.7	721.1	802.4
57.5°	689.2	615.4	549.7	496.9	482.9	468.8	482.9	496.9	549.7	615.4	689.2
60°	613.8	546.5	491.3	446.3	432.2	418.2	432.2	446.3	491.3	546.5	613.8
62.5°	540.3	479.8	435.8	399.9	388.2	376.6	388.2	399.9	435.8	479.8	540.3
65°	450.3	400.1	363.9	334.3	324.2	314.2	324.2	334.3	363.9	400.1	450.3
67.5°	372.5	331.8	300.0	274.6	267.9	261.3	267.9	274.6	300.0	331.8	372.5
70°	322.2	287.6	261.5	240.6	235.6	230.6	235.6	240.6	261.5	287.6	322.2
72.5°	274.2	245.2	224.7	208.5	205.0	201.6	205.0	208.5	224.7	245.2	274.2
75°	210.2	189.6	175.6	164.5	162.5	160.5	162.5	164.5	175.6	189.6	210.2
77.5°	155.5	140.3	129.9	121.7	120.1	118.4	120.1	121.7	129.9	140.3	155.5
80°	120.6	109.0	101.0	94.9	94.9	94.9	94.9	94.9	101.0	109.0	120.6
82.5°	86.0	78.5	74.4	71.4	71.4	71.4	71.4	71.4	74.4	78.5	86.0
85°	45.0	39.9	33.9	29.1	28.1	27.1	28.1	29.1	33.9	39.9	45.0
87.5°	16.4	16.2	17.6	18.2	19.5	18.8	19.5	18.2	17.6	16.2	16.4
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	63.9	57.7	46.8	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	115.0	103.8	90.4	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	204.2	188.6	166.8	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	291.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	349.2	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	404.0	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	483.2	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	554.3	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	601.7	578.3	545.6	512.8



TEST NUMBER: P1428433

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	559.0	595.5	628.2	651.6	671.2	679.9	671.2	651.6	628.2	595.5	559.0
115°	623.5	671.8	701.4	723.3	737.3	745.1	737.3	723.3	701.4	671.8	623.5
117.5°	677.1	727.6	760.1	776.9	783.4	789.1	783.4	776.9	760.1	727.6	677.1
120°	710.8	757.6	795.0	816.8	824.6	827.7	824.6	816.8	795.0	757.6	710.8
122.5°	742.0	786.2	822.4	849.2	862.0	865.1	862.0	849.2	822.4	786.2	742.0
125°	785.6	827.7	865.1	891.6	905.6	913.4	905.6	891.6	865.1	827.7	785.6
127.5°	823.7	869.2	903.5	927.5	941.2	947.4	941.2	927.5	903.5	869.2	823.7
130°	844.9	891.6	925.9	952.4	964.9	971.1	964.9	952.4	925.9	891.6	844.9
132.5°	861.1	910.3	945.9	969.9	983.6	989.8	983.6	969.9	945.9	910.3	861.1
135°	880.7	932.1	969.6	992.9	1005.4	1011.6	1005.4	992.9	969.6	932.1	880.7
137.5°	897.9	944.6	983.6	1008.2	1019.4	1023.5	1019.4	1008.2	983.6	944.6	897.9
140°	910.3	950.9	989.8	1013.2	1025.7	1027.2	1025.7	1013.2	989.8	950.9	910.3
142.5°	926.5	958.3	992.3	1015.7	1028.2	1031.0	1028.2	1015.7	992.3	958.3	926.5
145°	955.5	974.2	997.6	1019.4	1030.4	1033.5	1030.4	1019.4	997.6	974.2	955.5
147.5°	992.0	997.9	1010.1	1024.4	1035.0	1037.2	1035.0	1024.4	1010.1	997.9	992.0
150°	1019.4	1017.9	1022.6	1031.9	1041.3	1039.7	1041.3	1031.9	1022.6	1017.9	1019.4
152.5°	1050.6	1041.6	1041.3	1045.6	1050.0	1049.7	1050.0	1045.6	1041.3	1041.6	1050.6
155°	1103.6	1086.5	1077.1	1074.0	1074.0	1072.4	1074.0	1074.0	1077.1	1086.5	1103.6
157.5°	1161.9	1137.9	1123.9	1116.4	1114.2	1110.8	1114.2	1116.4	1123.9	1137.9	1161.9
160°	1201.8	1175.3	1161.3	1148.8	1144.1	1139.5	1144.1	1148.8	1161.3	1175.3	1201.8
162.5°	1239.2	1214.0	1198.7	1187.5	1182.8	1175.6	1182.8	1187.5	1198.7	1214.0	1239.2
165°	1300.0	1273.5	1256.4	1247.0	1240.8	1234.6	1240.8	1247.0	1256.4	1273.5	1300.0
167.5°	1360.8	1331.8	1320.6	1310.0	1304.1	1292.8	1304.1	1310.0	1320.6	1331.8	1360.8
170°	1398.2	1371.7	1365.5	1356.1	1345.2	1332.8	1345.2	1356.1	1365.5	1371.7	1398.2
172.5°	1430.6	1412.9	1406.6	1397.3	1393.9	1383.9	1393.9	1397.3	1406.6	1412.9	1430.6
175°	1477.7	1463.7	1463.7	1462.1	1457.5	1448.1	1457.5	1462.1	1463.7	1463.7	1477.7
177.5°	1517.0	1509.5	1514.5	1514.5	1513.3	1504.5	1513.3	1514.5	1514.5	1509.5	1517.0
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428433

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2373.4	2373.4	2373.4	2373.4
2.5°	2381.2	2384.4	2370.8	2357.1
5°	2380.2	2382.7	2365.6	2348.5
7.5°	2370.5	2371.3	2354.1	2336.8
10°	2362.1	2362.1	2344.0	2325.9
12.5°	2350.6	2349.2	2330.4	2311.5
15°	2325.2	2320.9	2300.8	2280.7
17.5°	2289.2	2285.2	2265.1	2245.0
20°	2262.6	2259.9	2239.8	2219.7
22.5°	2227.1	2226.9	2205.2	2183.5
25°	2161.7	2171.5	2150.4	2129.3
27.5°	2074.6	2100.1	2083.1	2066.0
30°	2006.5	2046.9	2033.8	2020.8
32.5°	1930.5	1983.8	1978.8	1973.8
35°	1807.5	1878.4	1887.4	1896.5
37.5°	1671.5	1751.3	1778.2	1805.1
40°	1576.2	1661.9	1700.1	1738.2
42.5°	1480.4	1568.5	1616.3	1664.1
45°	1337.4	1429.1	1485.3	1541.6
47.5°	1200.6	1292.0	1347.8	1403.7
50°	1108.3	1195.7	1250.0	1304.2
52.5°	1021.5	1105.7	1154.4	1203.0
55°	892.8	972.2	1018.4	1064.6
57.5°	770.9	842.3	882.3	922.2
60°	693.2	761.5	796.7	831.8
62.5°	617.2	682.7	713.9	745.0
65°	514.6	568.6	591.7	614.8
67.5°	422.1	462.5	475.4	488.2
70°	365.4	398.8	402.8	406.9
72.5°	311.8	339.6	338.0	336.3
75°	237.3	255.7	247.6	239.6
77.5°	175.4	187.3	175.3	163.2
80°	135.6	143.9	131.9	119.8
82.5°	97.0	102.9	93.3	83.6
85°	49.0	50.7	45.7	40.7
87.5°	18.9	19.1	15.4	11.8
90°	28.1	17.1	10.9	4.7
92.5°	60.5	42.1	29.6	17.1
95°	121.6	96.6	68.6	48.3
97.5°	193.6	153.4	125.6	92.3
100°	232.3	193.3	166.8	130.9
102.5°	274.7	241.9	205.4	169.6
105°	350.7	310.2	268.1	227.6
107.5°	421.2	376.6	326.1	289.6
110°	466.1	417.8	364.8	332.0



TEST NUMBER: P1428433

CATALOG NUMBER: SQ2W-PW1-K-100U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	509.7	460.2	405.9	373.2
115°	569.0	514.4	464.5	436.5
117.5°	626.0	569.9	517.2	495.1
120°	660.9	604.8	553.4	536.2
122.5°	689.6	634.7	587.0	579.9
125°	732.6	676.5	636.0	645.3
127.5°	767.5	716.1	690.5	711.4
130°	788.7	743.5	727.9	757.6
132.5°	807.4	772.2	765.4	806.2
135°	835.5	815.2	821.5	877.6
137.5°	868.9	861.1	882.0	952.7
140°	890.1	894.7	924.4	1003.9
142.5°	918.7	929.7	968.0	1052.5
145°	963.3	986.7	1036.6	1120.8
147.5°	1013.8	1044.1	1105.8	1192.2
150°	1047.5	1086.5	1151.9	1234.6
152.5°	1086.2	1126.4	1191.8	1275.7
155°	1145.7	1190.9	1259.5	1331.2
157.5°	1206.5	1252.6	1318.1	1380.8
160°	1243.9	1293.8	1353.0	1410.7
162.5°	1286.3	1332.4	1384.2	1435.6
165°	1348.3	1385.8	1427.8	1471.5
167.5°	1400.4	1431.6	1464.6	1498.6
170°	1434.1	1459.0	1487.1	1513.6
172.5°	1462.8	1482.7	1503.3	1526.0
175°	1501.1	1512.0	1524.5	1538.5
177.5°	1530.7	1534.5	1538.2	1544.4
180°	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428433  
 CATALOG NUMBER: SQ2W-PW1-K-100U-100D-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	19.94	20.80	20.87	21.74	22.96	16.19	17.05	17.12	17.99	19.21
	3H	21.24	22.01	22.19	22.96	24.20	17.46	18.22	18.40	19.18	20.42
	4H	21.65	22.37	22.61	23.33	24.58	17.96	18.69	18.92	19.64	20.89
	6H	21.83	22.50	22.80	23.46	24.72	18.27	18.94	19.24	19.90	21.16
	8H	21.87	22.51	22.85	23.48	24.74	18.39	19.02	19.36	20.00	21.26
	12H	21.87	22.48	22.85	23.45	24.73	18.42	19.02	19.40	19.99	21.27
4H	2H	20.07	20.80	21.04	21.75	23.00	17.00	17.72	17.96	18.68	19.93
	3H	21.61	22.21	22.58	23.20	24.46	18.45	19.04	19.42	20.03	21.30
	4H	22.16	22.70	23.14	23.68	24.97	19.02	19.57	20.00	20.55	21.84
	6H	22.47	22.94	23.46	23.94	25.23	19.41	19.88	20.40	20.88	22.17
	8H	22.56	23.00	23.55	24.00	25.30	19.56	20.00	20.55	20.99	22.29
	12H	22.58	22.98	23.59	23.99	25.30	19.60	20.00	20.61	21.01	22.31
8H	4H	22.20	22.63	23.19	23.63	24.93	19.37	19.80	20.36	20.80	22.10
	6H	22.62	22.98	23.64	24.02	25.32	19.86	20.22	20.88	21.26	22.56
	8H	22.79	23.11	23.82	24.13	25.45	20.08	20.40	21.11	21.42	22.74
	12H	22.87	23.15	23.90	24.17	25.53	20.16	20.44	21.19	21.46	22.82
12H	4H	22.15	22.55	23.17	23.56	24.87	19.38	19.78	20.40	20.79	22.10
	6H	22.61	22.93	23.64	23.96	25.27	19.93	20.25	20.96	21.28	22.60
	8H	22.80	23.08	23.83	24.10	25.46	20.18	20.46	21.21	21.48	22.84