

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: P1428263

Luminaire Tested: SQ2W-PR1-K-100U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428263  
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-100U-100D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

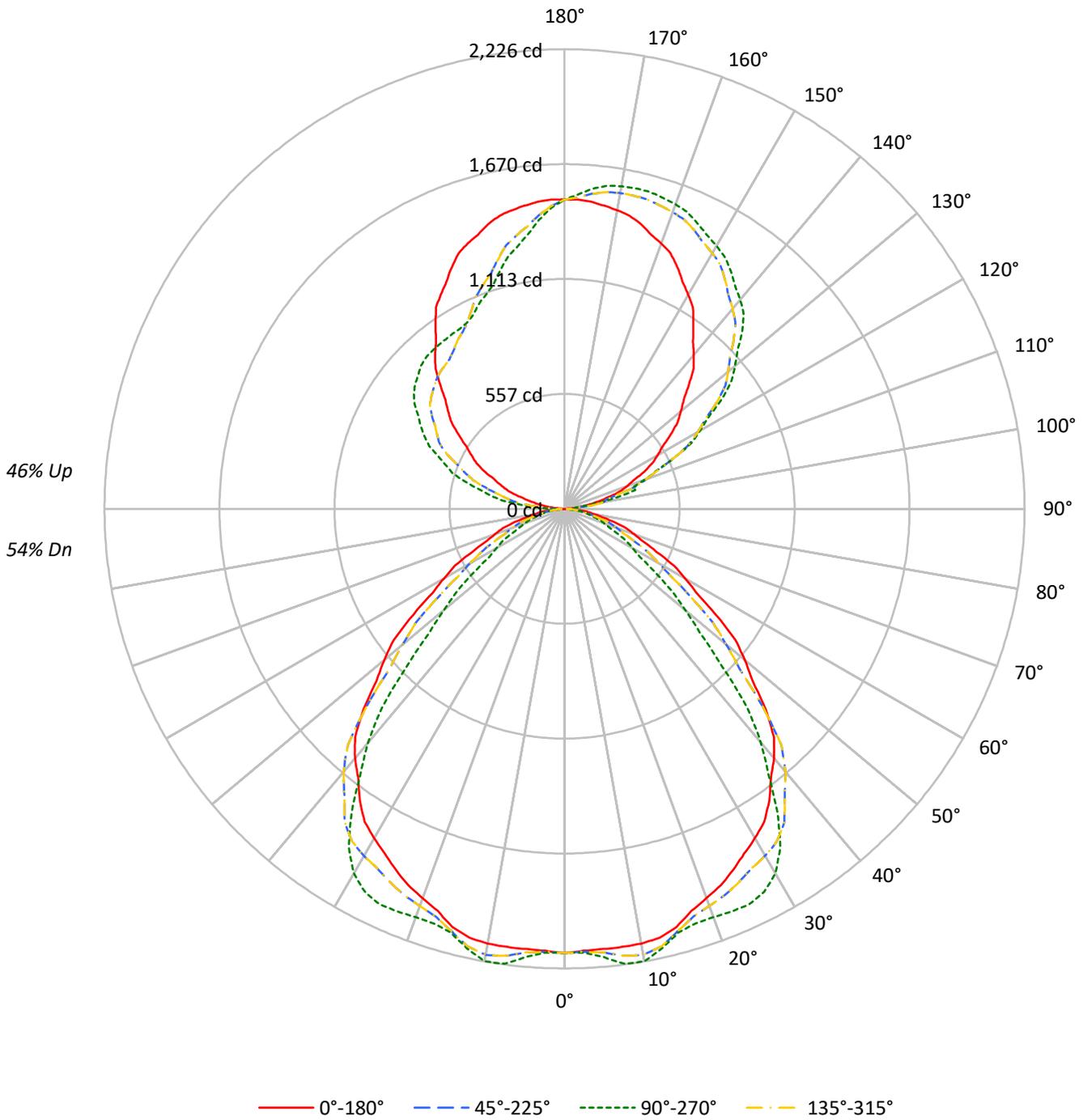
Lumens per Lamp: N/A  
Luminaire Lumens: 9553.2 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1428263

CATALOG NUMBER: SQ2W-PR1-K-100U-100D-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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54	54	54	54	
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	54	53	52	47	47	47	47	
2	91	84	78	73	84	78	73	69	68	64	60	58	55	52	48	47	45	40	40	40	40	
3	83	74	67	62	77	69	63	58	60	55	52	51	48	45	43	41	39	35	35	35	35	
4	77	66	59	53	71	62	55	50	54	49	44	46	42	39	39	36	34	31	31	31	31	
5	71	59	51	46	65	56	49	43	48	43	39	42	38	34	36	32	30	27	27	27	27	
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	32	29	27	24	24	24	24	
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24	21	21	21	21	
8	56	44	36	31	52	41	35	30	36	31	27	32	27	24	27	24	21	19	19	19	19	
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19	17	17	17	17	
10	49	37	30	25	45	35	28	24	31	26	22	27	23	20	23	20	18	16	16	16	16	

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

	0°	90°	180°	270°
0°	34734	34734	34734	34734
5°	34688	35329	34688	35329
10°	35053	36493	35053	36493
15°	35043	35520	35043	35520
20°	34477	36171	34477	36171
25°	34379	37660	34379	37660
30°	34343	38021	34343	38021
35°	34018	35399	34018	35399
40°	33231	31153	33231	31153
45°	31446	24635	31446	24635
50°	28587	19115	28587	19115
55°	25123	14877	25123	14877
60°	21738	12251	21738	12251
65°	18766	10724	18766	10724
70°	16876	9526	16876	9526
75°	15458	8752	15458	8752
80°	13454	8563	13454	8563
85°	9744	4057	9744	4057

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 33759 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.8	2.2
10°-20°	601.4	6.3
20°-30°	929.7	9.7
30°-40°	1118.0	11.7
40°-50°	1004.0	10.5
50°-60°	672.7	7.0
60°-70°	391.3	4.1
70°-80°	201.0	2.1
80°-90°	55.8	0.6
90°-100°	119.2	1.2
100°-110°	347.5	3.6
110°-120°	567.1	5.9
120°-130°	719.6	7.5
130°-140°	770.0	8.1
140°-150°	719.0	7.5
150°-160°	591.6	6.2
160°-170°	396.8	4.2
170°-180°	140.9	1.5
0°-30°	1738.9	18.2
0°-40°	2856.9	29.9
0°-60°	4533.7	47.5
0°-90°	5181.8	54.2
90°-120°	1033.7	10.8
90°-150°	3242.2	33.9
90°-180°	4371.0	45.8
0°-180°	9553.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2151	2151	2151	2151	2151	
5°	2140	2180	2140	2180	2140	204
15°	2096	2125	2096	2125	2096	589
25°	1930	2114	1930	2114	1930	890
35°	1726	1796	1726	1796	1726	1076
45°	1377	1079	1377	1079	1377	1053
55°	892	528	892	528	892	802
65°	491	281	491	281	491	497
75°	248	140	248	140	248	263
85°	53	22	53	22	53	65
90°	4	33	4	65	4	6
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2142.5	2154.2	2165.9	2160.6	2149.7	2144.7	2145.4	2146.6	2149.0	2151.3	2149.0
5°	2140.3	2156.9	2173.5	2169.6	2158.8	2154.5	2156.4	2160.3	2170.1	2179.8	2170.1
7.5°	2139.9	2163.5	2187.1	2188.9	2183.4	2183.5	2189.2	2196.6	2209.5	2222.3	2209.5
10°	2138.1	2166.4	2194.7	2198.8	2194.9	2193.4	2194.4	2198.6	2212.2	2225.9	2212.2
12.5°	2127.6	2160.5	2193.5	2190.0	2174.4	2166.0	2164.6	2165.4	2172.8	2180.2	2172.8
15°	2096.5	2135.5	2174.4	2158.6	2124.5	2108.9	2111.8	2115.2	2120.1	2125.0	2120.1
17.5°	2041.6	2082.4	2123.1	2108.9	2076.3	2065.3	2075.9	2086.1	2095.7	2105.2	2095.7
20°	2006.6	2046.5	2086.5	2076.7	2050.4	2044.1	2057.7	2072.1	2088.7	2105.2	2088.7
22.5°	1975.0	2014.9	2054.9	2048.7	2027.0	2025.8	2044.9	2064.9	2087.7	2110.5	2087.7
25°	1929.8	1964.9	2000.0	2000.7	1990.0	2000.7	2032.9	2063.3	2088.7	2114.0	2088.7
27.5°	1882.4	1903.1	1923.8	1937.4	1948.7	1976.1	2019.6	2056.6	2074.3	2092.1	2074.3
30°	1842.1	1855.7	1869.4	1894.7	1924.0	1957.6	1995.6	2025.8	2032.6	2039.4	2032.6
32.5°	1798.2	1806.4	1814.6	1850.3	1895.1	1927.6	1947.6	1960.5	1951.7	1943.0	1951.7
35°	1725.9	1732.7	1739.5	1785.1	1843.5	1865.0	1849.4	1833.1	1814.5	1796.0	1814.5
37.5°	1639.9	1653.9	1668.0	1705.1	1749.9	1749.5	1703.9	1664.4	1643.2	1621.9	1643.2
40°	1576.7	1600.1	1623.5	1648.4	1673.7	1652.3	1584.0	1526.8	1502.4	1478.1	1502.4
42.5°	1499.5	1537.0	1574.4	1580.0	1574.9	1528.9	1441.9	1369.3	1339.5	1309.6	1339.5
45°	1377.2	1427.9	1478.5	1449.5	1394.0	1318.9	1224.4	1145.2	1112.1	1078.9	1112.1
47.5°	1232.9	1284.9	1337.0	1282.3	1192.0	1104.7	1020.3	949.3	918.3	887.3	918.3
50°	1138.1	1180.1	1222.0	1160.1	1063.6	975.9	896.9	829.2	795.1	761.0	795.1
52.5°	1041.7	1071.9	1102.1	1040.8	949.0	863.6	784.6	717.7	686.7	655.7	686.7
55°	892.5	908.1	923.7	866.9	786.1	708.1	633.0	571.4	549.9	528.5	549.9
57.5°	755.7	765.6	775.6	721.8	646.7	577.3	513.6	461.8	446.0	430.3	446.0
60°	673.2	680.1	686.9	632.3	557.3	494.9	445.2	404.7	392.1	379.4	392.1
62.5°	597.8	603.1	608.3	555.7	483.8	428.0	388.4	356.4	346.8	337.3	346.8
65°	491.2	496.1	501.0	456.1	394.7	348.9	318.7	294.3	287.5	280.7	287.5
67.5°	406.6	409.1	411.6	374.7	324.6	287.7	263.9	244.4	238.0	231.6	238.0
70°	357.5	358.4	359.4	326.8	282.9	250.2	228.8	211.5	206.6	201.8	206.6
72.5°	313.6	312.2	310.9	281.7	243.3	215.3	197.8	183.8	180.5	177.2	180.5
75°	247.8	244.9	242.0	217.8	186.6	165.2	153.5	144.2	142.3	140.3	142.3
77.5°	185.1	182.0	178.8	158.8	133.0	118.2	114.3	111.4	111.4	111.4	111.4
80°	144.7	140.8	136.9	121.3	101.9	92.1	92.1	92.1	92.1	92.1	92.1
82.5°	107.9	102.4	97.0	87.4	76.5	71.1	71.1	70.9	70.1	69.3	70.1
85°	52.6	47.8	42.9	41.7	41.7	38.7	32.9	27.8	24.9	21.9	24.9
87.5°	14.9	16.2	17.7	16.0	13.0	11.3	11.3	11.6	11.9	11.9	11.9
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2146.6	2145.4	2144.7	2149.7	2160.6	2165.9	2154.2	2142.5	2154.2	2165.9	2160.6
5°	2160.3	2156.4	2154.5	2158.8	2169.6	2173.5	2156.9	2140.3	2156.9	2173.5	2169.6
7.5°	2196.6	2189.2	2183.5	2183.4	2188.9	2187.1	2163.5	2139.9	2163.5	2187.1	2188.9
10°	2198.6	2194.4	2193.4	2194.9	2198.8	2194.7	2166.4	2138.1	2166.4	2194.7	2198.8
12.5°	2165.4	2164.6	2166.0	2174.4	2190.0	2193.5	2160.5	2127.6	2160.5	2193.5	2190.0
15°	2115.2	2111.8	2108.9	2124.5	2158.6	2174.4	2135.5	2096.5	2135.5	2174.4	2158.6
17.5°	2086.1	2075.9	2065.3	2076.3	2108.9	2123.1	2082.4	2041.6	2082.4	2123.1	2108.9
20°	2072.1	2057.7	2044.1	2050.4	2076.7	2086.5	2046.5	2006.6	2046.5	2086.5	2076.7
22.5°	2064.9	2044.9	2025.8	2027.0	2048.7	2054.9	2014.9	1975.0	2014.9	2054.9	2048.7
25°	2063.3	2032.9	2000.7	1990.0	2000.7	2000.0	1964.9	1929.8	1964.9	2000.0	2000.7
27.5°	2056.6	2019.6	1976.1	1948.7	1937.4	1923.8	1903.1	1882.4	1903.1	1923.8	1937.4
30°	2025.8	1995.6	1957.6	1924.0	1894.7	1869.4	1855.7	1842.1	1855.7	1869.4	1894.7
32.5°	1960.5	1947.6	1927.6	1895.1	1850.3	1814.6	1806.4	1798.2	1806.4	1814.6	1850.3
35°	1833.1	1849.4	1865.0	1843.5	1785.1	1739.5	1732.7	1725.9	1732.7	1739.5	1785.1
37.5°	1664.4	1703.9	1749.5	1749.9	1705.1	1668.0	1653.9	1639.9	1653.9	1668.0	1705.1
40°	1526.8	1584.0	1652.3	1673.7	1648.4	1623.5	1600.1	1576.7	1600.1	1623.5	1648.4
42.5°	1369.3	1441.9	1528.9	1574.9	1580.0	1574.4	1537.0	1499.5	1537.0	1574.4	1580.0
45°	1145.2	1224.4	1318.9	1394.0	1449.5	1478.5	1427.9	1377.2	1427.9	1478.5	1449.5
47.5°	949.3	1020.3	1104.7	1192.0	1282.3	1337.0	1284.9	1232.9	1284.9	1337.0	1282.3
50°	829.2	896.9	975.9	1063.6	1160.1	1222.0	1180.1	1138.1	1180.1	1222.0	1160.1
52.5°	717.7	784.6	863.6	949.0	1040.8	1102.1	1071.9	1041.7	1071.9	1102.1	1040.8
55°	571.4	633.0	708.1	786.1	866.9	923.7	908.1	892.5	908.1	923.7	866.9
57.5°	461.8	513.6	577.3	646.7	721.8	775.6	765.6	755.7	765.6	775.6	721.8
60°	404.7	445.2	494.9	557.3	632.3	686.9	680.1	673.2	680.1	686.9	632.3
62.5°	356.4	388.4	428.0	483.8	555.7	608.3	603.1	597.8	603.1	608.3	555.7
65°	294.3	318.7	348.9	394.7	456.1	501.0	496.1	491.2	496.1	501.0	456.1
67.5°	244.4	263.9	287.7	324.6	374.7	411.6	409.1	406.6	409.1	411.6	374.7
70°	211.5	228.8	250.2	282.9	326.8	359.4	358.4	357.5	358.4	359.4	326.8
72.5°	183.8	197.8	215.3	243.3	281.7	310.9	312.2	313.6	312.2	310.9	281.7
75°	144.2	153.5	165.2	186.6	217.8	242.0	244.9	247.8	244.9	242.0	217.8
77.5°	111.4	114.3	118.2	133.0	158.8	178.8	182.0	185.1	182.0	178.8	158.8
80°	92.1	92.1	92.1	101.9	121.3	136.9	140.8	144.7	140.8	136.9	121.3
82.5°	70.9	71.1	71.1	76.5	87.4	97.0	102.4	107.9	102.4	97.0	87.4
85°	27.8	32.9	38.7	41.7	41.7	42.9	47.8	52.6	47.8	42.9	41.7
87.5°	11.6	11.3	11.3	13.0	16.0	17.7	16.2	14.9	16.2	17.4	16.6
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1428263

CATALOG NUMBER: SQ2W-PR1-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428263

CATALOG NUMBER: SQ2W-PR1-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2149.7	2144.7	2145.4	2146.6	2149.0	2151.3	2149.0	2146.6	2145.4	2144.7	2149.7
5°	2158.8	2154.5	2156.4	2160.3	2170.1	2179.8	2170.1	2160.3	2156.4	2154.5	2158.8
7.5°	2183.4	2183.5	2189.2	2196.6	2209.5	2222.3	2209.5	2196.6	2189.2	2183.5	2183.4
10°	2194.9	2193.4	2194.4	2198.6	2212.2	2225.9	2212.2	2198.6	2194.4	2193.4	2194.9
12.5°	2174.4	2166.0	2164.6	2165.4	2172.8	2180.2	2172.8	2165.4	2164.6	2166.0	2174.4
15°	2124.5	2108.9	2111.8	2115.2	2120.1	2125.0	2120.1	2115.2	2111.8	2108.9	2124.5
17.5°	2076.3	2065.3	2075.9	2086.1	2095.7	2105.2	2095.7	2086.1	2075.9	2065.3	2076.3
20°	2050.4	2044.1	2057.7	2072.1	2088.7	2105.2	2088.7	2072.1	2057.7	2044.1	2050.4
22.5°	2027.0	2025.8	2044.9	2064.9	2087.7	2110.5	2087.7	2064.9	2044.9	2025.8	2027.0
25°	1990.0	2000.7	2032.9	2063.3	2088.7	2114.0	2088.7	2063.3	2032.9	2000.7	1990.0
27.5°	1948.7	1976.1	2019.6	2056.6	2074.3	2092.1	2074.3	2056.6	2019.6	1976.1	1948.7
30°	1924.0	1957.6	1995.6	2025.8	2032.6	2039.4	2032.6	2025.8	1995.6	1957.6	1924.0
32.5°	1895.1	1927.6	1947.6	1960.5	1951.7	1943.0	1951.7	1960.5	1947.6	1927.6	1895.1
35°	1843.5	1865.0	1849.4	1833.1	1814.5	1796.0	1814.5	1833.1	1849.4	1865.0	1843.5
37.5°	1749.9	1749.5	1703.9	1664.4	1643.2	1621.9	1643.2	1664.4	1703.9	1749.5	1749.9
40°	1673.7	1652.3	1584.0	1526.8	1502.4	1478.1	1502.4	1526.8	1584.0	1652.3	1673.7
42.5°	1574.9	1528.9	1441.9	1369.3	1339.5	1309.6	1339.5	1369.3	1441.9	1528.9	1574.9
45°	1394.0	1318.9	1224.4	1145.2	1112.1	1078.9	1112.1	1145.2	1224.4	1318.9	1394.0
47.5°	1192.0	1104.7	1020.3	949.3	918.3	887.3	918.3	949.3	1020.3	1104.7	1192.0
50°	1063.6	975.9	896.9	829.2	795.1	761.0	795.1	829.2	896.9	975.9	1063.6
52.5°	949.0	863.6	784.6	717.7	686.7	655.7	686.7	717.7	784.6	863.6	949.0
55°	786.1	708.1	633.0	571.4	549.9	528.5	549.9	571.4	633.0	708.1	786.1
57.5°	646.7	577.3	513.6	461.8	446.0	430.3	446.0	461.8	513.6	577.3	646.7
60°	557.3	494.9	445.2	404.7	392.1	379.4	392.1	404.7	445.2	494.9	557.3
62.5°	483.8	428.0	388.4	356.4	346.8	337.3	346.8	356.4	388.4	428.0	483.8
65°	394.7	348.9	318.7	294.3	287.5	280.7	287.5	294.3	318.7	348.9	394.7
67.5°	324.6	287.7	263.9	244.4	238.0	231.6	238.0	244.4	263.9	287.7	324.6
70°	282.9	250.2	228.8	211.5	206.6	201.8	206.6	211.5	228.8	250.2	282.9
72.5°	243.3	215.3	197.8	183.8	180.5	177.2	180.5	183.8	197.8	215.3	243.3
75°	186.6	165.2	153.5	144.2	142.3	140.3	142.3	144.2	153.5	165.2	186.6
77.5°	133.0	118.2	114.3	111.4	111.4	111.4	111.4	111.4	114.3	118.2	133.0
80°	101.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	101.9
82.5°	76.5	71.1	71.1	70.9	70.1	69.3	70.1	70.9	71.1	71.1	76.5
85°	41.7	38.7	32.9	27.8	24.9	21.9	24.9	27.8	32.9	38.7	41.7
87.5°	14.2	14.3	16.5	17.7	18.9	18.3	18.9	17.7	16.5	14.3	14.2
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1428263

CATALOG NUMBER: SQ2W-PR1-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428263

CATALOG NUMBER: SQ2W-PR1-K-100U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2151.3	2151.3	2151.3	2151.3
2.5°	2160.6	2165.9	2154.2	2142.5
5°	2169.6	2173.5	2156.9	2140.3
7.5°	2188.9	2187.1	2163.5	2139.9
10°	2198.8	2194.7	2166.4	2138.1
12.5°	2190.0	2193.5	2160.5	2127.6
15°	2158.6	2174.4	2135.5	2096.5
17.5°	2108.9	2123.1	2082.4	2041.6
20°	2076.7	2086.5	2046.5	2006.6
22.5°	2048.7	2054.9	2014.9	1975.0
25°	2000.7	2000.0	1964.9	1929.8
27.5°	1937.4	1923.8	1903.1	1882.4
30°	1894.7	1869.4	1855.7	1842.1
32.5°	1850.3	1814.6	1806.4	1798.2
35°	1785.1	1739.5	1732.7	1725.9
37.5°	1705.1	1668.0	1653.9	1639.9
40°	1648.4	1623.5	1600.1	1576.7
42.5°	1580.0	1574.4	1537.0	1499.5
45°	1449.5	1478.5	1427.9	1377.2
47.5°	1282.3	1337.0	1284.9	1232.9
50°	1160.1	1222.0	1180.1	1138.1
52.5°	1040.8	1102.1	1071.9	1041.7
55°	866.9	923.7	908.1	892.5
57.5°	721.8	775.6	765.6	755.7
60°	632.3	686.9	680.1	673.2
62.5°	555.7	608.3	603.1	597.8
65°	456.1	501.0	496.1	491.2
67.5°	374.7	411.6	409.1	406.6
70°	326.8	359.4	358.4	357.5
72.5°	281.7	310.9	312.2	313.6
75°	217.8	242.0	244.9	247.8
77.5°	158.8	178.8	182.0	185.1
80°	121.3	136.9	140.8	144.7
82.5°	87.4	97.0	102.4	107.9
85°	41.7	42.9	47.8	52.6
87.5°	16.6	17.4	16.2	14.9
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1428263

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428263  
 CATALOG NUMBER: SQ2W-PR1-K-100U-100D-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	19.39	20.24	20.31	21.18	22.40	15.75	16.61	16.68	17.55	18.76
	3H	20.59	21.36	21.53	22.31	23.54	16.92	17.68	17.86	18.63	19.87
	4H	21.08	21.80	22.03	22.75	24.00	17.38	18.10	18.34	19.06	20.30
	6H	21.38	22.04	22.34	23.00	24.26	17.72	18.39	18.69	19.35	20.60
	8H	21.48	22.11	22.45	23.09	24.34	17.86	18.49	18.83	19.47	20.72
	12H	21.52	22.12	22.50	23.09	24.37	17.89	18.49	18.87	19.46	20.74
4H	2H	19.49	20.21	20.45	21.16	22.41	16.47	17.19	17.43	18.14	19.39
	3H	20.95	21.55	21.92	22.53	23.79	17.82	18.42	18.79	19.40	20.66
	4H	21.58	22.12	22.56	23.10	24.39	18.37	18.91	19.35	19.89	21.17
	6H	22.01	22.48	23.00	23.48	24.76	18.80	19.27	19.79	20.27	21.55
	8H	22.17	22.60	23.16	23.60	24.90	18.98	19.42	19.97	20.41	21.71
	12H	22.23	22.63	23.24	23.64	24.94	19.03	19.42	20.04	20.43	21.74
8H	4H	21.60	22.04	22.60	23.03	24.33	18.69	19.13	19.69	20.12	21.42
	6H	22.13	22.50	23.15	23.53	24.83	19.23	19.59	20.25	20.63	21.93
	8H	22.37	22.69	23.39	23.71	25.02	19.50	19.81	20.52	20.84	22.15
	12H	22.49	22.77	23.52	23.79	25.14	19.59	19.87	20.62	20.89	22.25
12H	4H	21.56	21.95	22.57	22.97	24.27	18.71	19.11	19.72	20.12	21.42
	6H	22.12	22.44	23.15	23.47	24.78	19.30	19.62	20.33	20.65	21.96
	8H	22.37	22.66	23.40	23.67	25.03	19.59	19.88	20.62	20.89	22.25