

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: P934411

Luminaire Tested: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934411
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

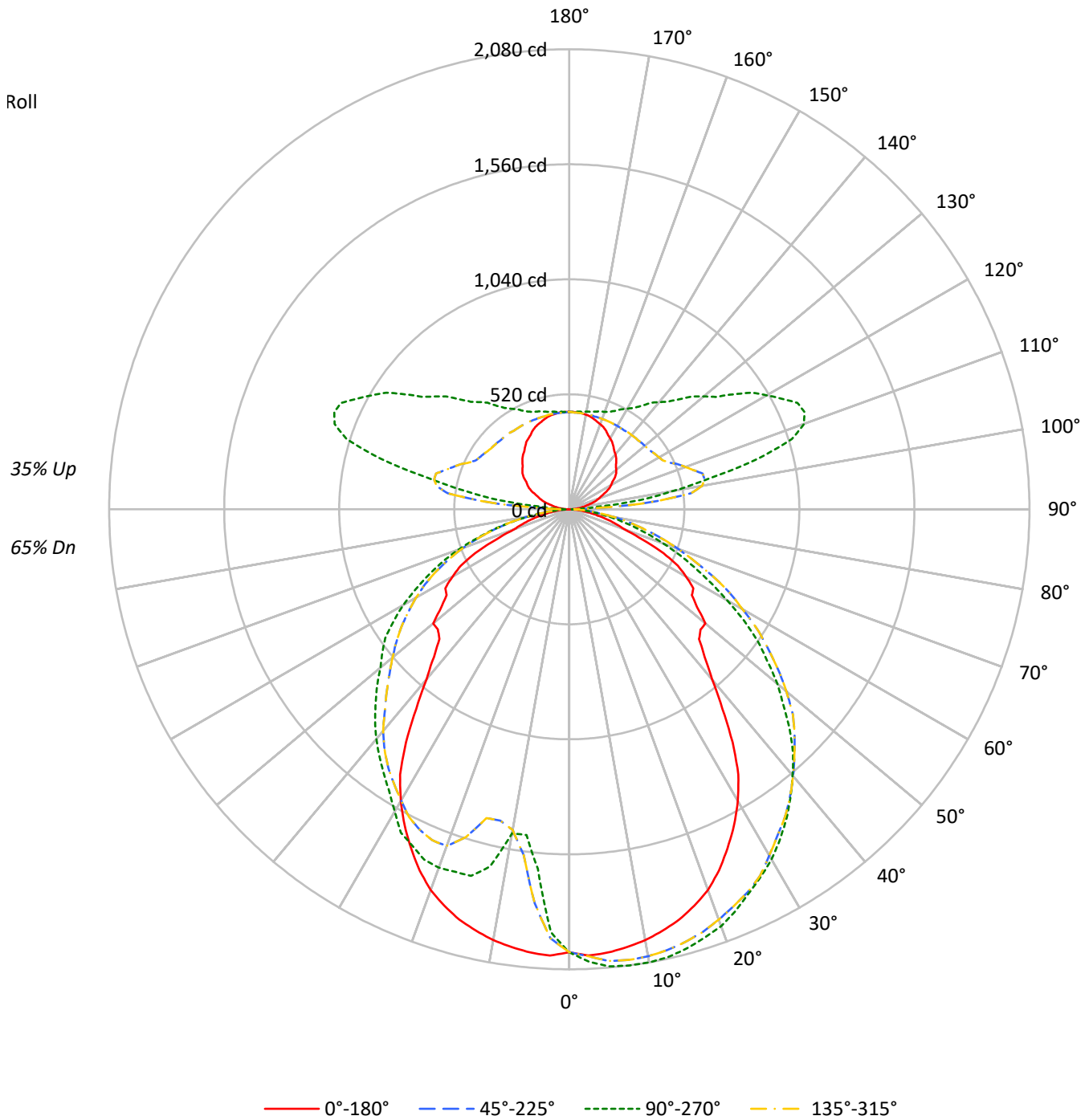
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8048.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
Input Voltage (V): NR
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12387	12387	12387	12387
5°	12475	12504	12475	9832
10°	12388	12318	12388	8807
15°	12248	12051	12248	10063
20°	11988	11735	11988	10084
25°	11458	11274	11458	9870
30°	10777	10891	10777	9401
35°	9603	10406	9603	8886
40°	7997	9836	7997	8496
45°	7141	9169	7141	8048
50°	7579	8373	7579	7598
55°	7126	7516	7126	7338
60°	7335	6383	7335	6721
65°	6641	5276	6641	5898
70°	4587	4206	4587	4944
75°	4008	3108	4008	3723
80°	3206	2056	3206	2238
85°	1806	1089	1806	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10951 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	2.2
10°-20°	513.2	6.4
20°-30°	793.3	9.9
30°-40°	947.1	11.8
40°-50°	952.6	11.8
50°-60°	828.9	10.3
60°-70°	587.7	7.3
70°-80°	310.9	3.9
80°-90°	79.1	1.0
90°-100°	214.7	2.7
100°-110°	564.4	7.0
110°-120°	585.2	7.3
120°-130°	469.4	5.8
130°-140°	368.3	4.6
140°-150°	282.7	3.5
150°-160°	203.6	2.5
160°-170°	124.6	1.5
170°-180°	42.1	0.5
0°-30°	1487.3	18.5
0°-40°	2434.4	30.2
0°-60°	4216.0	52.4
0°-90°	5193.7	64.5
90°-120°	1364.2	16.9
90°-150°	2484.6	30.9
90°-180°	2855.0	35.5
0°-180°	8048.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2002	2002	2002	2002	2002	
5°	2012	2074	2012	1631	2012	191
15°	1921	2056	1921	1716	1921	541
25°	1692	1917	1692	1678	1692	777
35°	1286	1711	1286	1461	1286	796
45°	830	1410	830	1237	830	665
55°	676	1040	676	1016	676	621
65°	470	627	470	701	470	449
75°	178	297	178	356	178	187
85°	30	76	30	64	30	41
90°	3	11	3	11	3	4
95°	28	130	28	130	28	32
105°	102	884	102	884	102	108
115°	181	1138	181	1138	181	178
125°	251	906	251	906	251	223
135°	299	703	299	703	299	232
145°	347	570	347	570	347	218
155°	392	491	392	491	392	180
165°	424	458	424	458	424	120
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2019.6	2019.6	2030.9	2034.7	2034.7	2029.0	2023.3	2029.0	2046.0	2051.8	2049.9
5°	2011.9	2027.1	2047.9	2051.8	2055.5	2053.6	2049.9	2053.6	2072.5	2076.3	2078.2
7.5°	1996.8	2025.2	2051.8	2057.4	2063.0	2057.4	2055.5	2059.3	2078.2	2082.1	2082.1
10°	1977.9	2017.6	2047.9	2051.8	2057.4	2051.8	2051.8	2059.3	2078.2	2082.1	2083.9
12.5°	1951.3	2006.3	2034.7	2038.5	2046.0	2044.1	2042.2	2049.9	2068.8	2072.5	2072.5
15°	1921.0	1985.4	2011.9	2015.7	2029.0	2025.2	2025.2	2032.7	2053.6	2059.3	2057.4
17.5°	1879.3	1958.8	1989.2	1994.9	2004.3	2002.4	2004.3	2011.9	2030.9	2034.7	2036.6
20°	1832.0	1922.9	1958.8	1964.6	1974.0	1974.0	1974.0	1983.5	2002.4	2010.1	2010.1
22.5°	1767.5	1885.0	1922.9	1926.7	1938.1	1938.1	1941.8	1955.1	1972.1	1974.0	1974.0
25°	1691.7	1843.4	1875.6	1886.9	1898.2	1904.0	1909.6	1917.3	1922.9	1921.0	1922.9
27.5°	1612.2	1790.3	1832.0	1839.5	1854.7	1860.4	1867.9	1869.8	1871.8	1877.4	1873.7
30°	1523.2	1716.4	1778.9	1786.5	1811.1	1814.9	1807.3	1811.1	1820.6	1824.4	1828.2
32.5°	1422.7	1606.6	1724.0	1741.1	1763.7	1752.3	1750.5	1756.2	1771.4	1771.4	1775.1
35°	1286.4	1521.3	1672.8	1688.0	1705.0	1691.7	1699.4	1701.2	1710.7	1716.4	1714.5
37.5°	1136.7	1447.4	1619.8	1631.1	1644.4	1627.4	1638.7	1644.4	1652.0	1648.2	1648.2
40°	1004.1	1331.8	1557.2	1564.9	1576.3	1563.0	1574.3	1578.1	1581.9	1578.1	1576.3
42.5°	905.5	1204.8	1491.0	1500.4	1492.9	1502.4	1506.1	1513.7	1508.0	1500.4	1500.4
45°	829.8	1170.8	1419.0	1430.4	1419.0	1434.1	1439.8	1439.8	1422.7	1419.0	1417.1
47.5°	805.1	1102.6	1347.0	1347.0	1341.3	1360.2	1369.7	1356.5	1339.4	1333.7	1333.7
50°	803.2	1026.8	1248.4	1240.9	1267.4	1290.1	1280.7	1267.4	1254.2	1233.3	1233.3
52.5°	729.3	934.0	1121.5	1150.0	1191.7	1204.8	1189.7	1176.5	1153.7	1144.2	1136.7
55°	676.4	837.4	1006.0	1062.8	1106.4	1123.4	1095.0	1081.7	1047.7	1041.9	1038.2
57.5°	665.0	697.2	899.9	971.9	1024.9	1023.0	1006.0	981.3	952.9	947.2	945.4
60°	610.0	503.9	786.2	871.5	926.4	920.7	905.5	882.9	856.3	852.6	848.7
62.5°	553.1	365.7	657.3	754.0	831.7	829.8	816.5	782.4	763.5	754.0	746.4
65°	469.9	306.9	468.0	627.0	738.9	742.6	714.2	689.6	668.7	657.3	655.5
67.5°	358.0	250.1	316.3	522.8	649.8	646.1	610.0	598.6	572.2	566.4	555.1
70°	265.2	166.7	219.8	424.4	562.7	553.1	524.7	511.6	486.9	473.6	466.0
72.5°	219.8	134.5	161.0	329.6	473.6	462.2	437.7	422.5	401.6	390.2	382.7
75°	178.1	142.1	123.1	244.4	384.6	377.0	354.3	339.1	322.1	306.9	308.8
77.5°	130.7	132.6	98.5	180.0	305.0	293.7	280.4	261.5	253.8	238.7	238.7
80°	98.5	104.2	73.9	123.1	219.8	219.8	208.4	195.1	181.8	174.3	174.3
82.5°	66.3	66.3	55.0	77.6	149.7	144.0	136.4	132.6	125.0	121.2	121.2
85°	30.3	37.9	34.1	47.3	81.5	85.3	85.3	81.5	79.5	75.8	77.6
87.5°	9.5	17.0	20.8	26.5	41.7	43.6	45.5	45.5	45.5	47.3	47.3
90°	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9	11.2	11.2
92.5°	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.5	56.1	53.9
95°	28.4	65.1	101.9	111.1	197.3	312.3	369.8	330.0	250.4	190.6	183.8
97.5°	49.0	81.5	114.0	122.1	265.9	457.5	553.3	528.2	477.8	440.0	427.1
100°	65.0	94.5	123.9	131.3	290.7	503.4	609.7	611.6	615.3	618.1	602.8
102.5°	78.6	106.1	133.6	140.4	302.2	517.9	625.7	657.7	721.9	770.0	756.9
105°	101.7	124.9	148.2	154.0	310.6	519.5	623.9	695.8	839.5	947.3	940.2
107.5°	125.3	147.0	168.6	174.1	312.2	496.4	588.4	688.6	889.1	1039.5	1041.2
110°	141.3	160.8	180.4	185.3	309.8	475.9	558.9	670.9	895.1	1063.2	1070.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.0	175.6	194.3	198.9	309.9	458.0	532.0	646.7	876.1	1048.1	1059.3
115°	180.6	197.8	215.0	219.3	312.8	437.5	499.8	610.3	831.2	996.9	1012.6
117.5°	203.9	219.6	235.2	239.1	318.6	424.7	477.6	577.3	776.8	926.3	943.7
120°	217.5	232.2	246.9	250.7	323.3	420.3	468.7	559.8	742.0	878.7	895.6
122.5°	230.9	245.7	260.5	264.2	330.1	418.0	461.9	544.0	708.1	831.1	847.8
125°	251.2	264.7	278.3	281.6	339.3	416.1	454.6	524.3	663.7	768.1	783.4
127.5°	267.8	281.4	295.1	298.6	348.5	415.1	448.4	508.2	627.8	717.6	730.5
130°	276.7	291.4	306.1	309.7	355.2	415.7	446.0	499.2	605.8	685.7	697.7
132.5°	285.8	300.6	315.3	318.9	360.6	416.1	444.0	491.7	587.0	658.5	669.2
135°	299.4	312.8	326.2	329.5	366.5	415.8	440.4	480.4	560.2	620.1	629.3
137.5°	313.3	326.6	339.8	343.1	375.3	418.2	439.8	473.5	541.0	591.7	599.2
140°	324.8	337.1	349.2	352.3	380.8	418.7	437.8	466.9	525.2	568.9	576.0
142.5°	333.6	344.9	356.2	359.1	385.3	420.3	437.8	463.4	514.5	553.0	559.1
145°	347.3	357.2	367.0	369.5	391.3	420.3	434.8	455.7	497.6	529.1	533.6
147.5°	360.9	370.4	380.1	382.5	399.9	423.1	434.8	451.2	484.2	509.0	512.8
150°	369.8	378.5	387.1	389.3	404.5	424.7	434.8	448.7	476.6	497.4	500.5
152.5°	378.9	385.5	392.1	393.7	407.4	425.6	434.8	446.6	470.4	488.2	490.5
155°	392.5	397.4	402.2	403.4	413.9	427.8	434.8	444.3	463.2	477.3	478.9
157.5°	402.6	407.3	412.0	413.2	420.4	430.0	434.8	442.2	456.9	467.9	468.9
160°	409.4	413.0	416.6	417.6	423.3	431.0	434.8	441.1	453.7	463.2	463.8
162.5°	416.1	418.9	421.7	422.4	426.5	432.0	434.8	440.1	450.8	458.7	459.3
165°	423.5	426.0	428.5	429.1	431.1	433.5	434.8	438.6	446.2	451.9	452.6
167.5°	430.3	431.4	432.7	433.0	434.6	436.7	437.8	440.2	445.2	448.9	449.2
170°	434.8	435.9	437.2	437.5	437.6	437.7	437.8	440.2	445.2	448.9	448.9
172.5°	437.2	437.5	437.7	437.8	437.8	437.8	437.8	439.7	443.6	446.5	446.4
175°	440.4	440.4	440.4	440.4	439.6	438.3	437.8	439.0	441.5	443.3	443.3
177.5°	440.4	440.4	440.4	440.4	439.8	438.8	438.3	439.3	441.3	442.7	442.4
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2053.6	2047.9	2053.6	2049.9	2051.8	2046.0	2029.0	2023.3	2029.0	2034.7	2034.7
5°	2078.2	2074.4	2078.2	2078.2	2076.3	2072.5	2053.6	2049.9	2053.6	2055.5	2051.8
7.5°	2085.8	2080.2	2085.8	2082.1	2082.1	2078.2	2059.3	2055.5	2057.4	2063.0	2057.4
10°	2085.8	2080.2	2085.8	2083.9	2082.1	2078.2	2059.3	2051.8	2051.8	2057.4	2051.8
12.5°	2076.3	2072.5	2076.3	2072.5	2072.5	2068.8	2049.9	2042.2	2044.1	2046.0	2038.5
15°	2061.2	2055.5	2061.2	2057.4	2059.3	2053.6	2032.7	2025.2	2025.2	2029.0	2015.7
17.5°	2038.5	2030.9	2038.5	2036.6	2034.7	2030.9	2011.9	2004.3	2002.4	2004.3	1994.9
20°	2011.9	2006.3	2011.9	2010.1	2010.1	2002.4	1983.5	1974.0	1974.0	1974.0	1964.6
22.5°	1970.2	1964.6	1970.2	1974.0	1974.0	1972.1	1955.1	1941.8	1938.1	1938.1	1926.7
25°	1922.9	1917.3	1922.9	1922.9	1921.0	1922.9	1917.3	1909.6	1904.0	1898.2	1886.9
27.5°	1877.4	1873.7	1877.4	1873.7	1877.4	1871.8	1869.8	1867.9	1860.4	1854.7	1839.5
30°	1832.0	1828.2	1832.0	1828.2	1824.4	1820.6	1811.1	1807.3	1814.9	1811.1	1786.5
32.5°	1775.1	1771.4	1775.1	1775.1	1771.4	1771.4	1756.2	1750.5	1752.3	1763.7	1741.1
35°	1716.4	1710.7	1716.4	1714.5	1716.4	1710.7	1701.2	1699.4	1691.7	1705.0	1688.0
37.5°	1648.2	1642.5	1648.2	1648.2	1648.2	1652.0	1644.4	1638.7	1627.4	1644.4	1631.1
40°	1578.1	1570.5	1578.1	1576.3	1578.1	1581.9	1578.1	1574.3	1563.0	1576.3	1564.9
42.5°	1498.5	1496.6	1498.5	1500.4	1500.4	1508.0	1513.7	1506.1	1502.4	1492.9	1500.4
45°	1413.3	1409.5	1413.3	1417.1	1419.0	1422.7	1439.8	1439.8	1434.1	1419.0	1430.4
47.5°	1322.3	1312.9	1322.3	1333.7	1333.7	1339.4	1356.5	1369.7	1360.2	1341.3	1347.0
50°	1225.7	1227.6	1225.7	1233.3	1233.3	1254.2	1267.4	1280.7	1290.1	1267.4	1240.9
52.5°	1131.0	1129.1	1131.0	1136.7	1144.2	1153.7	1176.5	1189.7	1204.8	1191.7	1150.0
55°	1036.3	1040.0	1036.3	1038.2	1041.9	1047.7	1081.7	1095.0	1123.4	1106.4	1062.8
57.5°	941.6	935.8	941.6	945.4	947.2	952.9	981.3	1006.0	1023.0	1024.9	971.9
60°	831.7	824.1	831.7	848.7	852.6	856.3	882.9	905.5	920.7	926.4	871.5
62.5°	735.1	721.8	735.1	746.4	754.0	763.5	782.4	816.5	829.8	831.7	754.0
65°	632.8	627.0	632.8	655.5	657.3	668.7	689.6	714.2	742.6	738.9	627.0
67.5°	539.9	539.9	539.9	555.1	566.4	572.2	598.6	610.0	646.1	649.8	522.8
70°	454.7	452.8	454.7	466.0	473.6	486.9	511.6	524.7	553.1	562.7	424.4
72.5°	373.2	371.3	373.2	382.7	390.2	401.6	422.5	437.7	462.2	473.6	329.6
75°	301.2	297.4	301.2	308.8	306.9	322.1	339.1	354.3	377.0	384.6	244.4
77.5°	231.2	231.2	231.2	238.7	238.7	253.8	261.5	280.4	293.7	305.0	180.0
80°	172.4	170.6	172.4	174.3	174.3	181.8	195.1	208.4	219.8	219.8	123.1
82.5°	121.2	117.5	121.2	121.2	121.2	125.0	132.6	136.4	144.0	149.7	77.6
85°	75.8	75.8	75.8	77.6	75.8	79.5	81.5	85.3	85.3	81.5	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.6	41.7	26.5
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.8	126.5	111.1	80.2	57.1
95°	156.8	129.7	156.8	183.8	190.6	250.4	330.0	369.8	312.3	197.3	111.1
97.5°	375.7	324.3	375.7	427.1	440.0	477.8	528.2	553.3	457.5	265.9	122.1
100°	541.4	480.0	541.4	602.8	618.1	615.3	611.6	609.7	503.4	290.7	131.3
102.5°	704.3	651.7	704.3	756.9	770.0	721.9	657.7	625.7	517.9	302.2	140.4
105°	912.0	883.7	912.0	940.2	947.3	839.5	695.8	623.9	519.5	310.6	154.0
107.5°	1048.0	1054.9	1048.0	1041.2	1039.5	889.1	688.6	588.4	496.4	312.2	174.1
110°	1099.9	1129.3	1099.9	1070.5	1063.2	895.1	670.9	558.9	475.9	309.8	185.3



TEST NUMBER: P934411

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1104.6	1149.7	1104.6	1059.3	1048.1	876.1	646.7	532.0	458.0	309.9	198.9
115°	1075.2	1137.9	1075.2	1012.6	996.9	831.2	610.3	499.8	437.5	312.8	219.3
117.5°	1013.2	1082.7	1013.2	943.7	926.3	776.8	577.3	477.6	424.7	318.6	239.1
120°	963.1	1030.7	963.1	895.6	878.7	742.0	559.8	468.7	420.3	323.3	250.7
122.5°	914.4	981.0	914.4	847.8	831.1	708.1	544.0	461.9	418.0	330.1	264.2
125°	844.8	906.2	844.8	783.4	768.1	663.7	524.3	454.6	416.1	339.3	281.6
127.5°	782.3	834.1	782.3	730.5	717.6	627.8	508.2	448.4	415.1	348.5	298.6
130°	745.5	793.3	745.5	697.7	685.7	605.8	499.2	446.0	415.7	355.2	309.7
132.5°	712.0	754.9	712.0	669.2	658.5	587.0	491.7	444.0	416.1	360.6	318.9
135°	666.2	703.1	666.2	629.3	620.1	560.2	480.4	440.4	415.8	366.5	329.5
137.5°	629.5	659.7	629.5	599.2	591.7	541.0	473.5	439.8	418.2	375.3	343.1
140°	604.2	632.5	604.2	576.0	568.9	525.2	466.9	437.8	418.7	380.8	352.3
142.5°	583.4	607.6	583.4	559.1	553.0	514.5	463.4	437.8	420.3	385.3	359.1
145°	552.1	570.4	552.1	533.6	529.1	497.6	455.7	434.8	420.3	391.3	369.5
147.5°	528.0	543.2	528.0	512.8	509.0	484.2	451.2	434.8	423.1	399.9	382.5
150°	512.9	525.2	512.9	500.5	497.4	476.6	448.7	434.8	424.7	404.5	389.3
152.5°	499.9	509.3	499.9	490.5	488.2	470.4	446.6	434.8	425.6	407.4	393.7
155°	485.1	491.2	485.1	478.9	477.3	463.2	444.3	434.8	427.8	413.9	403.4
157.5°	473.3	477.6	473.3	468.9	467.9	456.9	442.2	434.8	430.0	420.4	413.2
160°	466.2	468.7	466.2	463.8	463.2	453.7	441.1	434.8	431.0	423.3	417.6
162.5°	461.7	464.0	461.7	459.3	458.7	450.8	440.1	434.8	432.0	426.5	422.4
165°	455.1	457.5	455.1	452.6	451.9	446.2	438.6	434.8	433.5	431.1	429.1
167.5°	450.3	451.3	450.3	449.2	448.9	445.2	440.2	437.8	436.7	434.6	433.0
170°	448.9	448.9	448.9	448.9	448.9	445.2	440.2	437.8	437.7	437.6	437.5
172.5°	445.4	444.5	445.4	446.4	446.5	443.6	439.7	437.8	437.8	437.8	437.8
175°	443.3	443.3	443.3	443.3	443.3	441.5	439.0	437.8	438.3	439.6	440.4
177.5°	441.5	440.4	441.5	442.4	442.7	441.3	439.3	438.3	438.8	439.8	440.4
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934411

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2030.9	2019.6	2019.6	2000.5	1993.0	1987.3	1977.9	1949.4	1941.8	1934.3	1945.7
5°	2047.9	2027.1	2011.9	1977.9	1949.4	1938.1	1902.1	1833.9	1788.4	1754.3	1735.3
7.5°	2051.8	2025.2	1996.8	1943.7	1875.6	1845.2	1735.3	1610.3	1576.3	1545.9	1526.9
10°	2047.9	2017.6	1977.9	1898.2	1737.2	1684.2	1574.3	1492.9	1472.0	1466.3	1472.0
12.5°	2034.7	2006.3	1951.3	1818.7	1593.3	1557.2	1492.9	1445.5	1441.7	1451.2	1502.4
15°	2011.9	1985.4	1921.0	1712.6	1513.7	1487.2	1441.7	1424.6	1445.5	1511.8	1665.3
17.5°	1989.2	1958.8	1879.3	1608.4	1453.0	1434.1	1401.9	1436.0	1553.5	1642.5	1693.6
20°	1958.8	1922.9	1832.0	1532.7	1409.5	1392.4	1377.3	1530.7	1619.8	1652.0	1680.4
22.5°	1922.9	1885.0	1767.5	1479.6	1364.0	1350.7	1360.2	1583.8	1619.8	1642.5	1667.2
25°	1875.6	1843.4	1691.7	1437.9	1328.1	1312.9	1348.9	1578.1	1598.9	1604.6	1653.9
27.5°	1832.0	1790.3	1612.2	1400.1	1284.5	1278.7	1358.4	1553.5	1568.6	1574.3	1627.4
30°	1778.9	1716.4	1523.2	1360.2	1239.0	1237.1	1360.2	1523.2	1519.4	1534.6	1587.5
32.5°	1724.0	1606.6	1422.7	1311.0	1195.4	1193.6	1347.0	1477.7	1473.9	1494.7	1534.6
35°	1672.8	1521.3	1286.4	1254.2	1140.5	1142.3	1314.8	1424.6	1426.5	1445.5	1470.1
37.5°	1619.8	1447.4	1136.7	1191.7	1087.4	1087.4	1271.2	1375.4	1371.6	1377.3	1411.3
40°	1557.2	1331.8	1004.1	1110.2	1038.2	1032.5	1218.1	1322.3	1309.1	1307.2	1354.6
42.5°	1491.0	1204.8	905.5	1002.2	981.3	973.8	1153.7	1257.9	1233.3	1239.0	1299.6
45°	1419.0	1170.8	829.8	846.8	922.6	916.9	1083.6	1184.0	1167.0	1182.2	1244.7
47.5°	1347.0	1102.6	805.1	702.9	860.1	858.2	1006.0	1112.0	1102.6	1117.8	1184.0
50°	1248.4	1026.8	803.2	602.5	790.0	797.6	913.2	1041.9	1041.9	1055.2	1125.3
52.5°	1121.5	934.0	729.3	545.6	708.5	731.2	831.7	981.3	985.2	998.4	1060.9
55°	1006.0	837.4	676.4	502.0	611.9	661.2	752.1	918.8	926.4	939.7	996.5
57.5°	899.9	697.2	665.0	450.8	522.8	570.3	682.0	858.2	862.0	873.4	928.3
60°	786.2	503.9	610.0	396.0	445.2	481.2	617.6	786.2	799.5	807.1	854.4
62.5°	657.3	365.7	553.1	358.0	407.4	414.9	564.5	718.1	735.1	740.7	769.2
65°	468.0	306.9	469.9	325.8	367.5	369.4	507.7	647.9	663.1	672.5	693.4
67.5°	316.3	250.1	358.0	295.5	337.2	339.1	452.8	566.4	587.3	594.8	608.1
70°	219.8	166.7	265.2	263.4	303.1	306.9	394.1	492.5	511.6	517.2	524.7
72.5°	161.0	134.5	219.8	236.8	267.1	270.9	333.5	409.2	428.2	433.8	437.7
75°	123.1	142.1	178.1	206.5	227.3	229.2	272.8	333.5	346.6	350.5	352.4
77.5°	98.5	132.6	130.7	166.7	185.7	181.8	214.0	257.6	269.0	269.0	269.0
80°	73.9	104.2	98.5	119.3	136.4	132.6	153.4	183.7	187.6	191.3	189.5
82.5°	55.0	66.3	66.3	75.8	90.9	87.2	102.3	119.3	119.3	119.3	123.1
85°	34.1	37.9	30.3	39.8	51.1	49.2	56.9	64.4	66.3	66.3	62.5
87.5°	20.8	17.0	9.5	15.2	22.8	22.8	26.5	28.4	26.5	26.5	26.5
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9
92.5°	52.0	31.9	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.5
95°	101.9	65.1	28.4	65.1	101.9	111.1	197.3	312.3	369.8	330.0	250.4
97.5°	114.0	81.5	49.0	81.5	114.0	122.1	265.9	457.5	553.3	528.2	477.8
100°	123.9	94.5	65.0	94.5	123.9	131.3	290.7	503.4	609.7	611.6	615.3
102.5°	133.6	106.1	78.6	106.1	133.6	140.4	302.2	517.9	625.7	657.7	721.9
105°	148.2	124.9	101.7	124.9	148.2	154.0	310.6	519.5	623.9	695.8	839.5
107.5°	168.6	147.0	125.3	147.0	168.6	174.1	312.2	496.4	588.4	688.6	889.1
110°	180.4	160.8	141.3	160.8	180.4	185.3	309.8	475.9	558.9	670.9	895.1



TEST NUMBER: P934411

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.3	175.6	157.0	175.6	194.3	198.9	309.9	458.0	532.0	646.7	876.1
115°	215.0	197.8	180.6	197.8	215.0	219.3	312.8	437.5	499.8	610.3	831.2
117.5°	235.2	219.6	203.9	219.6	235.2	239.1	318.6	424.7	477.6	577.3	776.8
120°	246.9	232.2	217.5	232.2	246.9	250.7	323.3	420.3	468.7	559.8	742.0
122.5°	260.5	245.7	230.9	245.7	260.5	264.2	330.1	418.0	461.9	544.0	708.1
125°	278.3	264.7	251.2	264.7	278.3	281.6	339.3	416.1	454.6	524.3	663.7
127.5°	295.1	281.4	267.8	281.4	295.1	298.6	348.5	415.1	448.4	508.2	627.8
130°	306.1	291.4	276.7	291.4	306.1	309.7	355.2	415.7	446.0	499.2	605.8
132.5°	315.3	300.6	285.8	300.6	315.3	318.9	360.6	416.1	444.0	491.7	587.0
135°	326.2	312.8	299.4	312.8	326.2	329.5	366.5	415.8	440.4	480.4	560.2
137.5°	339.8	326.6	313.3	326.6	339.8	343.1	375.3	418.2	439.8	473.5	541.0
140°	349.2	337.1	324.8	337.1	349.2	352.3	380.8	418.7	437.8	466.9	525.2
142.5°	356.2	344.9	333.6	344.9	356.2	359.1	385.3	420.3	437.8	463.4	514.5
145°	367.0	357.2	347.3	357.2	367.0	369.5	391.3	420.3	434.8	455.7	497.6
147.5°	380.1	370.4	360.9	370.4	380.1	382.5	399.9	423.1	434.8	451.2	484.2
150°	387.1	378.5	369.8	378.5	387.1	389.3	404.5	424.7	434.8	448.7	476.6
152.5°	392.1	385.5	378.9	385.5	392.1	393.7	407.4	425.6	434.8	446.6	470.4
155°	402.2	397.4	392.5	397.4	402.2	403.4	413.9	427.8	434.8	444.3	463.2
157.5°	412.0	407.3	402.6	407.3	412.0	413.2	420.4	430.0	434.8	442.2	456.9
160°	416.6	413.0	409.4	413.0	416.6	417.6	423.3	431.0	434.8	441.1	453.7
162.5°	421.7	418.9	416.1	418.9	421.7	422.4	426.5	432.0	434.8	440.1	450.8
165°	428.5	426.0	423.5	426.0	428.5	429.1	431.1	433.5	434.8	438.6	446.2
167.5°	432.7	431.4	430.3	431.4	432.7	433.0	434.6	436.7	437.8	440.2	445.2
170°	437.2	435.9	434.8	435.9	437.2	437.5	437.6	437.7	437.8	440.2	445.2
172.5°	437.7	437.5	437.2	437.5	437.7	437.8	437.8	437.8	437.8	439.7	443.6
175°	440.4	440.4	440.4	440.4	440.4	440.4	439.6	438.3	437.8	439.0	441.5
177.5°	440.4	440.4	440.4	440.4	440.4	440.4	439.8	438.8	438.3	439.3	441.3
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934411
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	1932.4	1926.7	1934.3	1913.4	1934.3	1926.7	1932.4	1945.7	1934.3	1941.8	1949.4
5°	1695.6	1686.1	1655.8	1631.1	1655.8	1686.1	1695.6	1735.3	1754.3	1788.4	1833.9
7.5°	1515.5	1508.0	1500.4	1485.2	1500.4	1508.0	1515.5	1526.9	1545.9	1576.3	1610.3
10°	1475.8	1477.7	1489.1	1487.2	1489.1	1477.7	1475.8	1472.0	1466.3	1472.0	1492.9
12.5°	1578.1	1595.2	1657.7	1653.9	1657.7	1595.2	1578.1	1502.4	1451.2	1441.7	1445.5
15°	1695.6	1701.2	1714.5	1716.4	1714.5	1701.2	1695.6	1665.3	1511.8	1445.5	1424.6
17.5°	1706.9	1708.8	1718.3	1718.3	1718.3	1708.8	1706.9	1693.6	1642.5	1553.5	1436.0
20°	1697.5	1701.2	1720.2	1724.0	1720.2	1701.2	1697.5	1680.4	1652.0	1619.8	1530.7
22.5°	1693.6	1701.2	1716.4	1714.5	1716.4	1701.2	1693.6	1667.2	1642.5	1619.8	1583.8
25°	1674.7	1674.7	1676.6	1678.5	1676.6	1674.7	1674.7	1653.9	1604.6	1598.9	1578.1
27.5°	1635.0	1638.7	1650.1	1648.2	1650.1	1638.7	1635.0	1627.4	1574.3	1568.6	1553.5
30°	1598.9	1595.2	1585.7	1578.1	1585.7	1595.2	1598.9	1587.5	1534.6	1519.4	1523.2
32.5°	1538.3	1528.8	1519.4	1513.7	1519.4	1528.8	1538.3	1534.6	1494.7	1473.9	1477.7
35°	1466.3	1468.2	1466.3	1460.7	1466.3	1468.2	1466.3	1470.1	1445.5	1426.5	1424.6
37.5°	1415.2	1419.0	1417.1	1409.5	1417.1	1419.0	1415.2	1411.3	1377.3	1371.6	1375.4
40°	1362.1	1364.0	1362.1	1356.5	1362.1	1364.0	1362.1	1354.6	1307.2	1309.1	1322.3
42.5°	1311.0	1309.1	1303.4	1299.6	1303.4	1309.1	1311.0	1299.6	1239.0	1233.3	1257.9
45°	1252.3	1254.2	1242.8	1237.1	1242.8	1254.2	1252.3	1244.7	1182.2	1167.0	1184.0
47.5°	1193.6	1193.6	1184.0	1178.4	1184.0	1193.6	1193.6	1184.0	1117.8	1102.6	1112.0
50°	1131.0	1129.1	1115.8	1113.9	1115.8	1129.1	1131.0	1125.3	1055.2	1041.9	1041.9
52.5°	1059.1	1059.1	1060.9	1064.7	1060.9	1059.1	1059.1	1060.9	998.4	985.2	981.3
55°	996.5	998.4	1011.6	1015.5	1011.6	998.4	996.5	996.5	939.7	926.4	918.8
57.5°	932.1	932.1	941.6	941.6	941.6	932.1	932.1	928.3	873.4	862.0	858.2
60°	858.2	862.0	869.6	867.7	869.6	862.0	858.2	854.4	807.1	799.5	786.2
62.5°	780.5	784.3	786.2	782.4	786.2	784.3	780.5	769.2	740.7	735.1	718.1
65°	699.0	702.9	704.8	700.9	704.8	702.9	699.0	693.4	672.5	663.1	647.9
67.5°	615.7	613.8	611.9	619.5	611.9	613.8	615.7	608.1	594.8	587.3	566.4
70°	530.5	530.5	528.6	532.3	528.6	530.5	530.5	524.7	517.2	511.6	492.5
72.5°	439.5	437.7	445.2	439.5	445.2	437.7	439.5	437.7	433.8	428.2	409.2
75°	350.5	354.3	350.5	356.2	350.5	354.3	350.5	352.4	350.5	346.6	333.5
77.5°	267.1	270.9	267.1	267.1	267.1	270.9	267.1	269.0	269.0	269.0	257.6
80°	189.5	187.6	187.6	185.7	187.6	187.6	189.5	189.5	191.3	187.6	183.7
82.5°	121.2	119.3	119.3	123.1	119.3	119.3	121.2	123.1	119.3	119.3	119.3
85°	66.3	68.2	64.4	64.4	64.4	68.2	66.3	62.5	66.3	66.3	64.4
87.5°	24.7	22.8	22.8	22.8	22.8	22.8	24.7	26.5	26.5	26.5	28.4
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.8	126.5	111.1
95°	190.6	183.8	156.8	129.7	156.8	183.8	190.6	250.4	330.0	369.8	312.3
97.5°	440.0	427.1	375.7	324.3	375.7	427.1	440.0	477.8	528.2	553.3	457.5
100°	618.1	602.8	541.4	480.0	541.4	602.8	618.1	615.3	611.6	609.7	503.4
102.5°	770.0	756.9	704.3	651.7	704.3	756.9	770.0	721.9	657.7	625.7	517.9
105°	947.3	940.2	912.0	883.7	912.0	940.2	947.3	839.5	695.8	623.9	519.5
107.5°	1039.5	1041.2	1048.0	1054.9	1048.0	1041.2	1039.5	889.1	688.6	588.4	496.4
110°	1063.2	1070.5	1099.9	1129.3	1099.9	1070.5	1063.2	895.1	670.9	558.9	475.9



TEST NUMBER: P934411

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1048.1	1059.3	1104.6	1149.7	1104.6	1059.3	1048.1	876.1	646.7	532.0	458.0
115°	996.9	1012.6	1075.2	1137.9	1075.2	1012.6	996.9	831.2	610.3	499.8	437.5
117.5°	926.3	943.7	1013.2	1082.7	1013.2	943.7	926.3	776.8	577.3	477.6	424.7
120°	878.7	895.6	963.1	1030.7	963.1	895.6	878.7	742.0	559.8	468.7	420.3
122.5°	831.1	847.8	914.4	981.0	914.4	847.8	831.1	708.1	544.0	461.9	418.0
125°	768.1	783.4	844.8	906.2	844.8	783.4	768.1	663.7	524.3	454.6	416.1
127.5°	717.6	730.5	782.3	834.1	782.3	730.5	717.6	627.8	508.2	448.4	415.1
130°	685.7	697.7	745.5	793.3	745.5	697.7	685.7	605.8	499.2	446.0	415.7
132.5°	658.5	669.2	712.0	754.9	712.0	669.2	658.5	587.0	491.7	444.0	416.1
135°	620.1	629.3	666.2	703.1	666.2	629.3	620.1	560.2	480.4	440.4	415.8
137.5°	591.7	599.2	629.5	659.7	629.5	599.2	591.7	541.0	473.5	439.8	418.2
140°	568.9	576.0	604.2	632.5	604.2	576.0	568.9	525.2	466.9	437.8	418.7
142.5°	553.0	559.1	583.4	607.6	583.4	559.1	553.0	514.5	463.4	437.8	420.3
145°	529.1	533.6	552.1	570.4	552.1	533.6	529.1	497.6	455.7	434.8	420.3
147.5°	509.0	512.8	528.0	543.2	528.0	512.8	509.0	484.2	451.2	434.8	423.1
150°	497.4	500.5	512.9	525.2	512.9	500.5	497.4	476.6	448.7	434.8	424.7
152.5°	488.2	490.5	499.9	509.3	499.9	490.5	488.2	470.4	446.6	434.8	425.6
155°	477.3	478.9	485.1	491.2	485.1	478.9	477.3	463.2	444.3	434.8	427.8
157.5°	467.9	468.9	473.3	477.6	473.3	468.9	467.9	456.9	442.2	434.8	430.0
160°	463.2	463.8	466.2	468.7	466.2	463.8	463.2	453.7	441.1	434.8	431.0
162.5°	458.7	459.3	461.7	464.0	461.7	459.3	458.7	450.8	440.1	434.8	432.0
165°	451.9	452.6	455.1	457.5	455.1	452.6	451.9	446.2	438.6	434.8	433.5
167.5°	448.9	449.2	450.3	451.3	450.3	449.2	448.9	445.2	440.2	437.8	436.7
170°	448.9	448.9	448.9	448.9	448.9	448.9	448.9	445.2	440.2	437.8	437.7
172.5°	446.5	446.4	445.4	444.5	445.4	446.4	446.5	443.6	439.7	437.8	437.8
175°	443.3	443.3	443.3	443.3	443.3	443.3	443.3	441.5	439.0	437.8	438.3
177.5°	442.7	442.4	441.5	440.4	441.5	442.4	442.7	441.3	439.3	438.3	438.8
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	1977.9	1987.3	1993.0	2000.5	2019.6
5°	1902.1	1938.1	1949.4	1977.9	2011.9
7.5°	1735.3	1845.2	1875.6	1943.7	1996.8
10°	1574.3	1684.2	1737.2	1898.2	1977.9
12.5°	1492.9	1557.2	1593.3	1818.7	1951.3
15°	1441.7	1487.2	1513.7	1712.6	1921.0
17.5°	1401.9	1434.1	1453.0	1608.4	1879.3
20°	1377.3	1392.4	1409.5	1532.7	1832.0
22.5°	1360.2	1350.7	1364.0	1479.6	1767.5
25°	1348.9	1312.9	1328.1	1437.9	1691.7
27.5°	1358.4	1278.7	1284.5	1400.1	1612.2
30°	1360.2	1237.1	1239.0	1360.2	1523.2
32.5°	1347.0	1193.6	1195.4	1311.0	1422.7
35°	1314.8	1142.3	1140.5	1254.2	1286.4
37.5°	1271.2	1087.4	1087.4	1191.7	1136.7
40°	1218.1	1032.5	1038.2	1110.2	1004.1
42.5°	1153.7	973.8	981.3	1002.2	905.5
45°	1083.6	916.9	922.6	846.8	829.8
47.5°	1006.0	858.2	860.1	702.9	805.1
50°	913.2	797.6	790.0	602.5	803.2
52.5°	831.7	731.2	708.5	545.6	729.3
55°	752.1	661.2	611.9	502.0	676.4
57.5°	682.0	570.3	522.8	450.8	665.0
60°	617.6	481.2	445.2	396.0	610.0
62.5°	564.5	414.9	407.4	358.0	553.1
65°	507.7	369.4	367.5	325.8	469.9
67.5°	452.8	339.1	337.2	295.5	358.0
70°	394.1	306.9	303.1	263.4	265.2
72.5°	333.5	270.9	267.1	236.8	219.8
75°	272.8	229.2	227.3	206.5	178.1
77.5°	214.0	181.8	185.7	166.7	130.7
80°	153.4	132.6	136.4	119.3	98.5
82.5°	102.3	87.2	90.9	75.8	66.3
85°	56.9	49.2	51.1	39.8	30.3
87.5°	26.5	22.8	22.8	15.2	9.5
90°	13.0	8.3	7.7	5.4	3.0
92.5°	80.2	57.1	52.0	31.9	11.9
95°	197.3	111.1	101.9	65.1	28.4
97.5°	265.9	122.1	114.0	81.5	49.0
100°	290.7	131.3	123.9	94.5	65.0
102.5°	302.2	140.4	133.6	106.1	78.6
105°	310.6	154.0	148.2	124.9	101.7
107.5°	312.2	174.1	168.6	147.0	125.3
110°	309.8	185.3	180.4	160.8	141.3



TEST NUMBER: P934411

CATALOG NUMBER: SQ4-FA-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	309.9	198.9	194.3	175.6	157.0
115°	312.8	219.3	215.0	197.8	180.6
117.5°	318.6	239.1	235.2	219.6	203.9
120°	323.3	250.7	246.9	232.2	217.5
122.5°	330.1	264.2	260.5	245.7	230.9
125°	339.3	281.6	278.3	264.7	251.2
127.5°	348.5	298.6	295.1	281.4	267.8
130°	355.2	309.7	306.1	291.4	276.7
132.5°	360.6	318.9	315.3	300.6	285.8
135°	366.5	329.5	326.2	312.8	299.4
137.5°	375.3	343.1	339.8	326.6	313.3
140°	380.8	352.3	349.2	337.1	324.8
142.5°	385.3	359.1	356.2	344.9	333.6
145°	391.3	369.5	367.0	357.2	347.3
147.5°	399.9	382.5	380.1	370.4	360.9
150°	404.5	389.3	387.1	378.5	369.8
152.5°	407.4	393.7	392.1	385.5	378.9
155°	413.9	403.4	402.2	397.4	392.5
157.5°	420.4	413.2	412.0	407.3	402.6
160°	423.3	417.6	416.6	413.0	409.4
162.5°	426.5	422.4	421.7	418.9	416.1
165°	431.1	429.1	428.5	426.0	423.5
167.5°	434.6	433.0	432.7	431.4	430.3
170°	437.6	437.5	437.2	435.9	434.8
172.5°	437.8	437.8	437.7	437.5	437.2
175°	439.6	440.4	440.4	440.4	440.4
177.5°	439.8	440.4	440.4	440.4	440.4
180°	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934411
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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	14.79	15.80	15.61	16.64	17.69	17.61	18.62	18.43	19.47	20.51
	3H	15.28	16.18	16.11	17.04	18.11	18.97	19.87	19.80	20.73	21.80
	4H	15.48	16.33	16.33	17.19	18.28	19.42	20.27	20.27	21.13	22.22
	6H	15.60	16.39	16.47	17.26	18.36	19.71	20.50	20.57	21.37	22.47
	8H	15.61	16.36	16.48	17.24	18.34	19.79	20.54	20.66	21.42	22.52
	12H	15.58	16.30	16.46	17.18	18.30	19.83	20.55	20.71	21.43	22.55
4H	2H	15.84	16.69	16.69	17.55	18.64	18.04	18.90	18.90	19.76	20.84
	3H	16.88	17.59	17.75	18.48	19.59	19.56	20.27	20.43	21.16	22.27
	4H	17.16	17.81	18.04	18.70	19.83	20.09	20.74	20.97	21.63	22.76
	6H	17.30	17.86	18.19	18.77	19.90	20.46	21.02	21.36	21.94	23.07
	8H	17.30	17.83	18.20	18.74	19.88	20.57	21.10	21.47	22.01	23.15
	12H	17.28	17.75	18.20	18.68	19.83	20.64	21.11	21.55	22.04	23.19
8H	4H	17.63	18.15	18.52	19.06	20.20	20.23	20.75	21.13	21.66	22.80
	6H	17.89	18.33	18.82	19.28	20.42	20.67	21.10	21.59	22.05	23.20
	8H	17.94	18.32	18.87	19.26	20.42	20.82	21.21	21.76	22.15	23.31
	12H	17.93	18.27	18.87	19.20	20.41	20.93	21.26	21.86	22.20	23.41
12H	4H	17.64	18.11	18.56	19.04	20.19	20.20	20.67	21.12	21.60	22.75
	6H	17.96	18.34	18.89	19.28	20.44	20.67	21.05	21.60	21.99	23.16
	8H	18.03	18.37	18.97	19.30	20.51	20.84	21.17	21.77	22.11	23.32