

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: P934424

Luminaire Tested: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934424
REPORT IS A COMBINATION OF REPORTS P933700 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

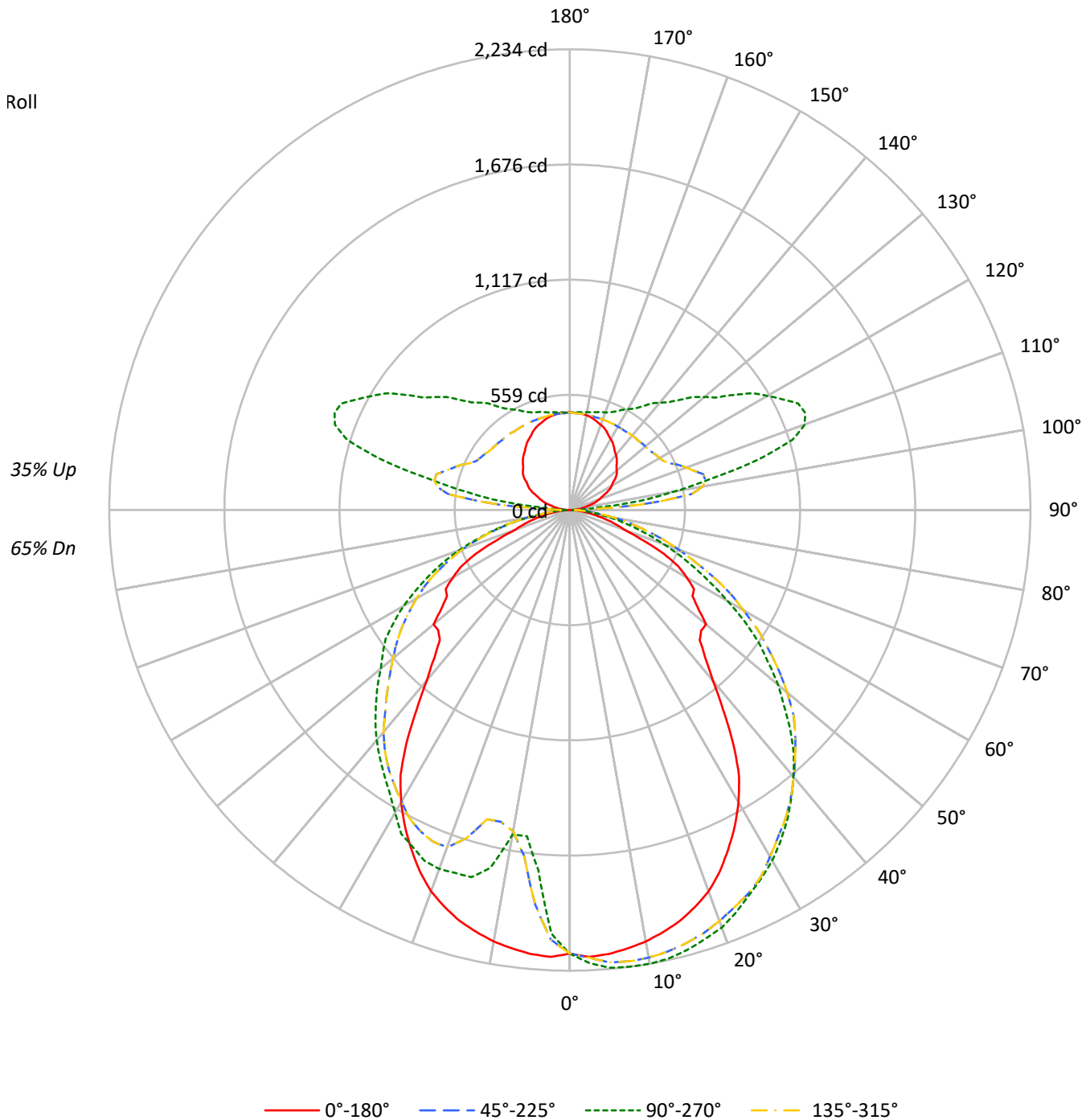
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8644.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90.4
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

TEST NUMBER: P934424
CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9978	9978	9978	9978
5°	10053	10073	10053	7920
10°	9986	9922	9986	7093
15°	9877	9707	9877	8106
20°	9671	9453	9671	8123
25°	9248	9081	9248	7950
30°	8701	8773	8701	7573
35°	7757	8383	7757	7157
40°	6464	7924	6464	6843
45°	5775	7386	5775	6482
50°	6136	6745	6136	6120
55°	5773	6054	5773	5911
60°	5951	5142	5951	5414
65°	5395	4251	5395	4751
70°	3735	3387	3735	3982
75°	3276	2504	3276	2998
80°	2640	1655	2640	1803
85°	1518	877	1518	744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8852 cd/sqm



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	2.2
10°-20°	551.2	6.4
20°-30°	852.1	9.9
30°-40°	1017.2	11.8
40°-50°	1023.2	11.8
50°-60°	890.3	10.3
60°-70°	631.2	7.3
70°-80°	333.9	3.9
80°-90°	85.0	1.0
90°-100°	230.5	2.7
100°-110°	606.1	7.0
110°-120°	628.5	7.3
120°-130°	504.1	5.8
130°-140°	395.5	4.6
140°-150°	303.6	3.5
150°-160°	218.6	2.5
160°-170°	133.8	1.5
170°-180°	45.2	0.5
0°-30°	1597.4	18.5
0°-40°	2614.6	30.2
0°-60°	4528.0	52.4
0°-90°	5578.1	64.5
90°-120°	1465.1	16.9
90°-150°	2668.3	30.9
90°-180°	3066.0	35.5
0°-180°	8644.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2151	2151	2151	2151	2151	
5°	2161	2228	2161	1752	2161	205
15°	2063	2208	2063	1844	2063	581
25°	1817	2059	1817	1803	1817	834
35°	1382	1837	1382	1569	1382	855
45°	891	1514	891	1329	891	714
55°	726	1117	726	1091	726	667
65°	505	674	505	753	505	482
75°	191	320	191	382	191	201
85°	33	81	33	69	33	44
90°	3	12	3	12	3	4
95°	30	139	30	139	30	34
105°	109	949	109	949	109	116
115°	194	1222	194	1222	194	192
125°	270	973	270	973	270	240
135°	322	755	322	755	322	249
145°	373	613	373	613	373	234
155°	422	528	422	528	422	194
165°	455	491	455	491	455	128
175°	473	476	473	476	473	45
180°	473	473	473	473	473	



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2169.0	2169.0	2181.2	2185.3	2185.3	2179.2	2173.1	2179.2	2197.5	2203.6	2201.6
5°	2160.9	2177.1	2199.5	2203.6	2207.7	2205.6	2201.6	2205.6	2226.0	2230.1	2232.1
7.5°	2144.6	2175.1	2203.6	2209.7	2215.8	2209.7	2207.7	2211.7	2232.1	2236.2	2236.2
10°	2124.2	2166.9	2199.5	2203.6	2209.7	2203.6	2203.6	2211.7	2232.1	2236.2	2238.2
12.5°	2095.7	2154.8	2185.3	2189.3	2197.5	2195.4	2193.4	2201.6	2221.9	2226.0	2226.0
15°	2063.2	2132.4	2160.9	2164.9	2179.2	2175.1	2175.1	2183.3	2205.6	2211.7	2209.7
17.5°	2018.4	2103.9	2136.4	2142.5	2152.7	2150.7	2152.7	2160.9	2181.2	2185.3	2187.3
20°	1967.6	2065.2	2103.9	2110.0	2120.2	2120.2	2120.2	2130.4	2150.7	2158.8	2158.8
22.5°	1898.4	2024.6	2065.2	2069.3	2081.5	2081.5	2085.5	2099.8	2118.1	2120.2	2120.2
25°	1817.0	1979.7	2014.3	2026.6	2038.8	2044.9	2051.0	2059.1	2065.2	2063.2	2065.2
27.5°	1731.5	1922.8	1967.6	1975.7	1992.0	1998.1	2006.2	2008.2	2010.3	2016.4	2012.3
30°	1635.9	1843.5	1910.6	1918.8	1945.2	1949.3	1941.1	1945.2	1955.3	1959.4	1963.5
32.5°	1528.1	1725.4	1851.6	1869.9	1894.3	1882.1	1880.0	1886.2	1902.4	1902.4	1906.5
35°	1381.5	1633.9	1796.6	1812.9	1831.2	1817.0	1825.1	1827.1	1837.4	1843.5	1841.4
37.5°	1220.8	1554.5	1739.7	1751.9	1766.1	1747.8	1760.0	1766.1	1774.2	1770.2	1770.2
40°	1078.4	1430.4	1672.5	1680.7	1692.8	1678.6	1690.8	1694.9	1699.0	1694.9	1692.8
42.5°	972.6	1294.1	1601.3	1611.5	1603.4	1613.5	1617.6	1625.7	1619.6	1611.5	1611.5
45°	891.2	1257.4	1524.0	1536.2	1524.0	1540.3	1546.4	1546.4	1528.1	1524.0	1522.0
47.5°	864.8	1184.2	1446.7	1446.7	1440.6	1460.9	1471.1	1456.8	1438.5	1432.4	1432.4
50°	862.7	1102.8	1340.9	1332.7	1361.2	1385.6	1375.5	1361.2	1347.0	1324.6	1324.6
52.5°	783.4	1003.1	1204.5	1235.1	1279.8	1294.1	1277.8	1263.6	1239.2	1229.0	1220.8
55°	726.4	899.4	1080.5	1141.4	1188.3	1206.6	1176.0	1161.9	1125.2	1119.1	1115.0
57.5°	714.2	748.7	966.5	1043.8	1100.8	1098.7	1080.5	1054.0	1023.5	1017.3	1015.3
60°	655.2	541.2	844.4	935.9	995.0	988.8	972.6	948.2	919.7	915.6	911.5
62.5°	594.1	392.7	706.0	809.8	893.2	891.2	877.0	840.3	820.0	809.8	801.6
65°	504.6	329.6	502.6	673.5	793.6	797.6	767.1	740.7	718.3	706.0	704.0
67.5°	384.5	268.6	339.8	561.6	697.9	693.8	655.2	643.0	614.5	608.4	596.1
70°	284.8	179.0	236.0	455.8	604.3	594.1	563.6	549.4	522.9	508.7	500.5
72.5°	236.0	144.5	172.9	354.0	508.7	496.5	470.0	453.8	431.4	419.1	411.0
75°	191.3	152.6	132.3	262.5	413.0	404.9	380.5	364.2	345.9	329.6	331.6
77.5°	140.4	142.5	105.8	193.3	327.6	315.4	301.1	280.8	272.7	256.4	256.4
80°	105.8	111.9	79.4	132.3	236.0	236.0	223.8	209.6	195.3	187.2	187.2
82.5°	71.2	71.2	59.0	83.4	160.8	154.6	146.5	142.5	134.3	130.2	130.2
85°	32.6	40.7	36.7	50.9	87.5	91.6	91.6	87.5	85.5	81.4	83.4
87.5°	10.2	18.3	22.4	28.5	44.7	46.8	48.8	48.8	48.8	50.9	50.9
90°	3.2	5.7	8.2	8.9	13.9	20.7	24.1	21.4	16.1	12.1	12.1
92.5°	12.7	34.3	55.9	61.3	86.2	119.3	135.8	119.0	85.5	60.3	57.9
95°	30.5	70.0	109.5	119.4	211.9	335.3	397.1	354.4	268.9	204.7	197.5
97.5°	52.7	87.5	122.4	131.1	285.4	491.3	594.2	567.2	513.1	472.6	458.8
100°	69.8	101.4	133.0	140.9	312.2	540.6	654.8	656.8	660.7	663.7	647.2
102.5°	84.5	114.0	143.4	150.8	324.5	556.2	672.0	706.4	775.2	826.8	812.7
105°	109.2	134.1	159.2	165.4	333.6	557.9	670.1	747.2	901.6	1017.3	1009.7
107.5°	134.6	157.8	181.1	187.0	335.3	533.1	631.9	739.6	954.9	1116.3	1118.2
110°	151.7	172.7	193.8	199.0	332.8	511.0	600.2	720.6	961.2	1141.7	1149.6



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	168.6	188.6	208.6	213.6	332.9	491.9	571.3	694.5	940.8	1125.5	1137.7
115°	194.0	212.4	230.9	235.5	336.0	469.9	536.8	655.4	892.7	1070.6	1087.4
117.5°	219.0	235.8	252.6	256.8	342.2	456.0	512.9	620.0	834.1	994.8	1013.4
120°	233.6	249.4	265.3	269.2	347.3	451.4	503.4	601.2	796.9	943.6	961.7
122.5°	247.9	263.8	279.7	283.7	354.5	448.9	496.1	584.2	760.5	892.6	910.4
125°	269.8	284.3	298.8	302.5	364.4	446.9	488.2	563.0	712.7	825.0	841.5
127.5°	287.6	302.2	316.9	320.6	374.2	445.8	481.5	545.8	674.3	770.7	784.6
130°	297.1	312.9	328.7	332.6	381.4	446.4	478.9	536.2	650.6	736.4	749.2
132.5°	306.9	322.7	338.6	342.5	387.2	446.9	476.8	528.0	630.4	707.2	718.6
135°	321.6	336.0	350.3	353.9	393.5	446.4	472.9	515.8	601.6	665.9	675.8
137.5°	336.5	350.7	365.0	368.5	403.1	449.2	472.3	508.6	581.1	635.5	643.6
140°	348.8	362.0	375.1	378.4	408.9	449.7	470.1	501.4	564.0	611.0	618.5
142.5°	358.4	370.4	382.6	385.6	413.8	451.3	470.1	497.6	552.6	593.9	600.4
145°	373.0	383.5	394.2	396.8	420.2	451.4	466.9	489.4	534.5	568.2	573.1
147.5°	387.5	397.9	408.2	410.7	429.4	454.5	466.9	484.6	520.0	546.5	550.6
150°	397.1	406.4	415.7	418.0	434.4	456.1	466.9	481.9	511.8	534.2	537.5
152.5°	406.9	414.0	421.0	422.8	437.5	457.1	466.9	479.7	505.2	524.4	526.9
155°	421.5	426.7	432.0	433.3	444.5	459.5	466.9	477.1	497.3	512.6	514.3
157.5°	432.3	437.4	442.4	443.8	451.5	461.8	466.9	474.8	490.6	502.4	503.6
160°	439.6	443.6	447.5	448.5	454.7	462.8	466.9	473.7	487.2	497.3	498.0
162.5°	446.9	449.9	452.8	453.6	458.1	464.0	466.9	472.6	484.1	492.6	493.3
165°	454.8	457.5	460.2	460.8	462.8	465.5	466.9	471.0	479.2	485.3	486.0
167.5°	462.2	463.4	464.7	465.0	466.7	468.9	470.1	472.8	478.2	482.2	482.5
170°	466.9	468.2	469.5	469.8	469.9	470.0	470.1	472.8	478.2	482.2	482.2
172.5°	469.5	469.8	470.0	470.1	470.1	470.1	470.1	472.2	476.5	479.6	479.4
175°	472.9	472.9	472.9	472.9	472.0	470.7	470.1	471.4	474.1	476.1	476.1
177.5°	472.9	472.9	472.9	472.9	472.2	471.2	470.7	471.8	473.9	475.5	475.2
180°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9



TEST NUMBER: P934424
 CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2205.6	2199.5	2205.6	2201.6	2203.6	2197.5	2179.2	2173.1	2179.2	2185.3	2185.3
5°	2232.1	2228.0	2232.1	2232.1	2230.1	2226.0	2205.6	2201.6	2205.6	2207.7	2203.6
7.5°	2240.2	2234.1	2240.2	2236.2	2236.2	2232.1	2211.7	2207.7	2209.7	2215.8	2209.7
10°	2240.2	2234.1	2240.2	2238.2	2236.2	2232.1	2211.7	2203.6	2203.6	2209.7	2203.6
12.5°	2230.1	2226.0	2230.1	2226.0	2226.0	2221.9	2201.6	2193.4	2195.4	2197.5	2189.3
15°	2213.8	2207.7	2213.8	2209.7	2211.7	2205.6	2183.3	2175.1	2175.1	2179.2	2164.9
17.5°	2189.3	2181.2	2189.3	2187.3	2185.3	2181.2	2160.9	2152.7	2150.7	2152.7	2142.5
20°	2160.9	2154.8	2160.9	2158.8	2158.8	2150.7	2130.4	2120.2	2120.2	2120.2	2110.0
22.5°	2116.1	2110.0	2116.1	2120.2	2120.2	2118.1	2099.8	2085.5	2081.5	2081.5	2069.3
25°	2065.2	2059.1	2065.2	2065.2	2063.2	2065.2	2059.1	2051.0	2044.9	2038.8	2026.6
27.5°	2016.4	2012.3	2016.4	2012.3	2016.4	2010.3	2008.2	2006.2	1998.1	1992.0	1975.7
30°	1967.6	1963.5	1967.6	1963.5	1959.4	1955.3	1945.2	1941.1	1949.3	1945.2	1918.8
32.5°	1906.5	1902.4	1906.5	1906.5	1902.4	1902.4	1886.2	1880.0	1882.1	1894.3	1869.9
35°	1843.5	1837.4	1843.5	1841.4	1843.5	1837.4	1827.1	1825.1	1817.0	1831.2	1812.9
37.5°	1770.2	1764.1	1770.2	1770.2	1770.2	1774.2	1766.1	1760.0	1747.8	1766.1	1751.9
40°	1694.9	1686.8	1694.9	1692.8	1694.9	1699.0	1694.9	1690.8	1678.6	1692.8	1680.7
42.5°	1609.5	1607.5	1609.5	1611.5	1611.5	1619.6	1625.7	1617.6	1613.5	1603.4	1611.5
45°	1517.9	1513.8	1517.9	1522.0	1524.0	1528.1	1546.4	1546.4	1540.3	1524.0	1536.2
47.5°	1420.2	1410.0	1420.2	1432.4	1432.4	1438.5	1456.8	1471.1	1460.9	1440.6	1446.7
50°	1316.5	1318.5	1316.5	1324.6	1324.6	1347.0	1361.2	1375.5	1385.6	1361.2	1332.7
52.5°	1214.8	1212.7	1214.8	1220.8	1229.0	1239.2	1263.6	1277.8	1294.1	1279.8	1235.1
55°	1113.0	1117.0	1113.0	1115.0	1119.1	1125.2	1161.9	1176.0	1206.6	1188.3	1141.4
57.5°	1011.2	1005.2	1011.2	1015.3	1017.3	1023.5	1054.0	1080.5	1098.7	1100.8	1043.8
60°	893.2	885.1	893.2	911.5	915.6	919.7	948.2	972.6	988.8	995.0	935.9
62.5°	789.5	775.2	789.5	801.6	809.8	820.0	840.3	877.0	891.2	893.2	809.8
65°	679.6	673.5	679.6	704.0	706.0	718.3	740.7	767.1	797.6	793.6	673.5
67.5°	579.9	579.9	579.9	596.1	608.4	614.5	643.0	655.2	693.8	697.9	561.6
70°	488.3	486.3	488.3	500.5	508.7	522.9	549.4	563.6	594.1	604.3	455.8
72.5°	400.9	398.8	400.9	411.0	419.1	431.4	453.8	470.0	496.5	508.7	354.0
75°	323.6	319.5	323.6	331.6	329.6	345.9	364.2	380.5	404.9	413.0	262.5
77.5°	248.2	248.2	248.2	256.4	256.4	272.7	280.8	301.1	315.4	327.6	193.3
80°	185.2	183.1	185.2	187.2	187.2	195.3	209.6	223.8	236.0	236.0	132.3
82.5°	130.2	126.1	130.2	130.2	130.2	134.3	142.5	146.5	154.6	160.8	83.4
85°	81.4	81.4	81.4	83.4	81.4	85.5	87.5	91.6	91.6	87.5	50.9
87.5°	52.9	50.9	52.9	50.9	50.9	48.8	48.8	48.8	46.8	44.7	28.5
90°	12.1	12.1	12.1	12.1	12.1	16.1	21.4	24.1	20.7	13.9	8.9
92.5°	48.3	38.7	48.3	57.9	60.3	85.5	119.0	135.8	119.3	86.2	61.3
95°	168.4	139.4	168.4	197.5	204.7	268.9	354.4	397.1	335.3	211.9	119.4
97.5°	403.5	348.2	403.5	458.8	472.6	513.1	567.2	594.2	491.3	285.4	131.1
100°	581.4	515.4	581.4	647.2	663.7	660.7	656.8	654.8	540.6	312.2	140.9
102.5°	756.3	699.9	756.3	812.7	826.8	775.2	706.4	672.0	556.2	324.5	150.8
105°	979.4	949.0	979.4	1009.7	1017.3	901.6	747.2	670.1	557.9	333.6	165.4
107.5°	1125.5	1132.8	1125.5	1118.2	1116.3	954.9	739.6	631.9	533.1	335.3	187.0
110°	1181.2	1212.8	1181.2	1149.6	1141.7	961.2	720.6	600.2	511.0	332.8	199.0



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1186.2	1234.7	1186.2	1137.7	1125.5	940.8	694.5	571.3	491.9	332.9	213.6
115°	1154.7	1222.0	1154.7	1087.4	1070.6	892.7	655.4	536.8	469.9	336.0	235.5
117.5°	1088.1	1162.7	1088.1	1013.4	994.8	834.1	620.0	512.9	456.0	342.2	256.8
120°	1034.3	1106.8	1034.3	961.7	943.6	796.9	601.2	503.4	451.4	347.3	269.2
122.5°	982.0	1053.5	982.0	910.4	892.6	760.5	584.2	496.1	448.9	354.5	283.7
125°	907.3	973.2	907.3	841.5	825.0	712.7	563.0	488.2	446.9	364.4	302.5
127.5°	840.1	895.7	840.1	784.6	770.7	674.3	545.8	481.5	445.8	374.2	320.6
130°	800.6	851.9	800.6	749.2	736.4	650.6	536.2	478.9	446.4	381.4	332.6
132.5°	764.7	810.7	764.7	718.6	707.2	630.4	528.0	476.8	446.9	387.2	342.5
135°	715.5	755.1	715.5	675.8	665.9	601.6	515.8	472.9	446.4	393.5	353.9
137.5°	676.1	708.5	676.1	643.6	635.5	581.1	508.6	472.3	449.2	403.1	368.5
140°	648.9	679.2	648.9	618.5	611.0	564.0	501.4	470.1	449.7	408.9	378.4
142.5°	626.5	652.6	626.5	600.4	593.9	552.6	497.6	470.1	451.3	413.8	385.6
145°	592.9	612.6	592.9	573.1	568.2	534.5	489.4	466.9	451.4	420.2	396.8
147.5°	567.0	583.4	567.0	550.6	546.5	520.0	484.6	466.9	454.5	429.4	410.7
150°	550.8	564.0	550.8	537.5	534.2	511.8	481.9	466.9	456.1	434.4	418.0
152.5°	536.9	546.9	536.9	526.9	524.4	505.2	479.7	466.9	457.1	437.5	422.8
155°	520.9	527.5	520.9	514.3	512.6	497.3	477.1	466.9	459.5	444.5	433.3
157.5°	508.3	512.9	508.3	503.6	502.4	490.6	474.8	466.9	461.8	451.5	443.8
160°	500.7	503.4	500.7	498.0	497.3	487.2	473.7	466.9	462.8	454.7	448.5
162.5°	495.8	498.3	495.8	493.3	492.6	484.1	472.6	466.9	464.0	458.1	453.6
165°	488.6	491.3	488.6	486.0	485.3	479.2	471.0	466.9	465.5	462.8	460.8
167.5°	483.6	484.7	483.6	482.5	482.2	478.2	472.8	470.1	468.9	466.7	465.0
170°	482.2	482.2	482.2	482.2	482.2	478.2	472.8	470.1	470.0	469.9	469.8
172.5°	478.4	477.4	478.4	479.4	479.6	476.5	472.2	470.1	470.1	470.1	470.1
175°	476.1	476.1	476.1	476.1	476.1	474.1	471.4	470.1	470.7	472.0	472.9
177.5°	474.1	472.9	474.1	475.2	475.5	473.9	471.8	470.7	471.2	472.2	472.9
180°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2181.2	2169.0	2169.0	2148.7	2140.5	2134.4	2124.2	2093.7	2085.5	2077.5	2089.6
5°	2199.5	2177.1	2160.9	2124.2	2093.7	2081.5	2042.8	1969.6	1920.8	1884.1	1863.8
7.5°	2203.6	2175.1	2144.6	2087.6	2014.3	1981.8	1863.8	1729.5	1692.8	1660.4	1639.9
10°	2199.5	2166.9	2124.2	2038.8	1865.8	1808.9	1690.8	1603.4	1581.0	1574.9	1581.0
12.5°	2185.3	2154.8	2095.7	1953.3	1711.2	1672.5	1603.4	1552.5	1548.4	1558.6	1613.5
15°	2160.9	2132.4	2063.2	1839.4	1625.7	1597.2	1548.4	1530.1	1552.5	1623.7	1788.5
17.5°	2136.4	2103.9	2018.4	1727.5	1560.6	1540.3	1505.7	1542.3	1668.4	1764.1	1819.0
20°	2103.9	2065.2	1967.6	1646.1	1513.8	1495.5	1479.2	1644.0	1739.7	1774.2	1804.8
22.5°	2065.2	2024.6	1898.4	1589.1	1465.0	1450.8	1460.9	1701.0	1739.7	1764.1	1790.6
25°	2014.3	1979.7	1817.0	1544.3	1426.3	1410.0	1448.7	1694.9	1717.3	1723.4	1776.3
27.5°	1967.6	1922.8	1731.5	1503.7	1379.5	1373.4	1458.9	1668.4	1684.8	1690.8	1747.8
30°	1910.6	1843.5	1635.9	1460.9	1330.7	1328.6	1460.9	1635.9	1631.9	1648.1	1705.1
32.5°	1851.6	1725.4	1528.1	1408.0	1283.9	1281.9	1446.7	1587.0	1583.0	1605.4	1648.1
35°	1796.6	1633.9	1381.5	1347.0	1224.9	1226.9	1412.1	1530.1	1532.1	1552.5	1579.0
37.5°	1739.7	1554.5	1220.8	1279.8	1167.9	1167.9	1365.3	1477.2	1473.2	1479.2	1515.8
40°	1672.5	1430.4	1078.4	1192.3	1115.0	1108.9	1308.3	1420.2	1405.9	1403.9	1454.8
42.5°	1601.3	1294.1	972.6	1076.4	1054.0	1045.8	1239.2	1351.0	1324.6	1330.7	1395.8
45°	1524.0	1257.4	891.2	909.5	990.9	984.8	1163.9	1271.7	1253.4	1269.7	1336.8
47.5°	1446.7	1184.2	864.8	754.9	923.8	921.7	1080.5	1194.3	1184.2	1200.5	1271.7
50°	1340.9	1102.8	862.7	647.0	848.5	856.6	980.7	1119.1	1119.1	1133.4	1208.6
52.5°	1204.5	1003.1	783.4	586.0	761.0	785.4	893.2	1054.0	1058.1	1072.3	1139.4
55°	1080.5	899.4	726.4	539.2	657.2	710.1	807.8	986.8	995.0	1009.2	1070.2
57.5°	966.5	748.7	714.2	484.3	561.6	612.5	732.5	921.7	925.8	938.0	997.0
60°	844.4	541.2	655.2	425.3	478.2	516.8	663.3	844.4	858.6	866.8	917.7
62.5°	706.0	392.7	594.1	384.5	437.4	445.6	606.4	771.2	789.5	795.6	826.1
65°	502.6	329.6	504.6	350.0	394.7	396.8	545.3	695.8	712.2	722.3	744.7
67.5°	339.8	268.6	384.5	317.4	362.2	364.2	486.3	608.4	630.8	638.9	653.1
70°	236.0	179.0	284.8	282.8	325.6	329.6	423.2	529.0	549.4	555.5	563.6
72.5°	172.9	144.5	236.0	254.3	286.9	291.0	358.1	439.5	459.8	465.9	470.0
75°	132.3	152.6	191.3	221.8	244.2	246.2	293.0	358.1	372.4	376.5	378.5
77.5°	105.8	142.5	140.4	179.0	199.4	195.3	229.9	276.7	288.9	288.9	288.9
80°	79.4	111.9	105.8	128.2	146.5	142.5	164.8	197.4	201.4	205.5	203.4
82.5°	59.0	71.2	71.2	81.4	97.6	93.6	109.9	128.2	128.2	128.2	132.3
85°	36.7	40.7	32.6	42.7	54.9	52.9	61.1	69.1	71.2	71.2	67.1
87.5°	22.4	18.3	10.2	16.2	24.4	24.4	28.5	30.5	28.5	28.5	28.5
90°	8.2	5.7	3.2	5.7	8.2	8.9	13.9	20.7	24.1	21.4	16.1
92.5°	55.9	34.3	12.7	34.3	55.9	61.3	86.2	119.3	135.8	119.0	85.5
95°	109.5	70.0	30.5	70.0	109.5	119.4	211.9	335.3	397.1	354.4	268.9
97.5°	122.4	87.5	52.7	87.5	122.4	131.1	285.4	491.3	594.2	567.2	513.1
100°	133.0	101.4	69.8	101.4	133.0	140.9	312.2	540.6	654.8	656.8	660.7
102.5°	143.4	114.0	84.5	114.0	143.4	150.8	324.5	556.2	672.0	706.4	775.2
105°	159.2	134.1	109.2	134.1	159.2	165.4	333.6	557.9	670.1	747.2	901.6
107.5°	181.1	157.8	134.6	157.8	181.1	187.0	335.3	533.1	631.9	739.6	954.9
110°	193.8	172.7	151.7	172.7	193.8	199.0	332.8	511.0	600.2	720.6	961.2



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	208.6	188.6	168.6	188.6	208.6	213.6	332.9	491.9	571.3	694.5	940.8
115°	230.9	212.4	194.0	212.4	230.9	235.5	336.0	469.9	536.8	655.4	892.7
117.5°	252.6	235.8	219.0	235.8	252.6	256.8	342.2	456.0	512.9	620.0	834.1
120°	265.3	249.4	233.6	249.4	265.3	269.2	347.3	451.4	503.4	601.2	796.9
122.5°	279.7	263.8	247.9	263.8	279.7	283.7	354.5	448.9	496.1	584.2	760.5
125°	298.8	284.3	269.8	284.3	298.8	302.5	364.4	446.9	488.2	563.0	712.7
127.5°	316.9	302.2	287.6	302.2	316.9	320.6	374.2	445.8	481.5	545.8	674.3
130°	328.7	312.9	297.1	312.9	328.7	332.6	381.4	446.4	478.9	536.2	650.6
132.5°	338.6	322.7	306.9	322.7	338.6	342.5	387.2	446.9	476.8	528.0	630.4
135°	350.3	336.0	321.6	336.0	350.3	353.9	393.5	446.4	472.9	515.8	601.6
137.5°	365.0	350.7	336.5	350.7	365.0	368.5	403.1	449.2	472.3	508.6	581.1
140°	375.1	362.0	348.8	362.0	375.1	378.4	408.9	449.7	470.1	501.4	564.0
142.5°	382.6	370.4	358.4	370.4	382.6	385.6	413.8	451.3	470.1	497.6	552.6
145°	394.2	383.5	373.0	383.5	394.2	396.8	420.2	451.4	466.9	489.4	534.5
147.5°	408.2	397.9	387.5	397.9	408.2	410.7	429.4	454.5	466.9	484.6	520.0
150°	415.7	406.4	397.1	406.4	415.7	418.0	434.4	456.1	466.9	481.9	511.8
152.5°	421.0	414.0	406.9	414.0	421.0	422.8	437.5	457.1	466.9	479.7	505.2
155°	432.0	426.7	421.5	426.7	432.0	433.3	444.5	459.5	466.9	477.1	497.3
157.5°	442.4	437.4	432.3	437.4	442.4	443.8	451.5	461.8	466.9	474.8	490.6
160°	447.5	443.6	439.6	443.6	447.5	448.5	454.7	462.8	466.9	473.7	487.2
162.5°	452.8	449.9	446.9	449.9	452.8	453.6	458.1	464.0	466.9	472.6	484.1
165°	460.2	457.5	454.8	457.5	460.2	460.8	462.8	465.5	466.9	471.0	479.2
167.5°	464.7	463.4	462.2	463.4	464.7	465.0	466.7	468.9	470.1	472.8	478.2
170°	469.5	468.2	466.9	468.2	469.5	469.8	469.9	470.0	470.1	472.8	478.2
172.5°	470.0	469.8	469.5	469.8	470.0	470.1	470.1	470.1	470.1	472.2	476.5
175°	472.9	472.9	472.9	472.9	472.9	472.9	472.0	470.7	470.1	471.4	474.1
177.5°	472.9	472.9	472.9	472.9	472.9	472.9	472.2	471.2	470.7	471.8	473.9
180°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9



TEST NUMBER: P934424
 CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2075.4	2069.3	2077.5	2055.1	2077.5	2069.3	2075.4	2089.6	2077.5	2085.5	2093.7
5°	1821.0	1810.9	1778.3	1751.9	1778.3	1810.9	1821.0	1863.8	1884.1	1920.8	1969.6
7.5°	1627.8	1619.6	1611.5	1595.2	1611.5	1619.6	1627.8	1639.9	1660.4	1692.8	1729.5
10°	1585.0	1587.0	1599.3	1597.2	1599.3	1587.0	1585.0	1581.0	1574.9	1581.0	1603.4
12.5°	1694.9	1713.2	1780.4	1776.3	1780.4	1713.2	1694.9	1613.5	1558.6	1548.4	1552.5
15°	1821.0	1827.1	1841.4	1843.5	1841.4	1827.1	1821.0	1788.5	1623.7	1552.5	1530.1
17.5°	1833.3	1835.3	1845.5	1845.5	1845.5	1835.3	1833.3	1819.0	1764.1	1668.4	1542.3
20°	1823.1	1827.1	1847.5	1851.6	1847.5	1827.1	1823.1	1804.8	1774.2	1739.7	1644.0
22.5°	1819.0	1827.1	1843.5	1841.4	1843.5	1827.1	1819.0	1790.6	1764.1	1739.7	1701.0
25°	1798.6	1798.6	1800.7	1802.7	1800.7	1798.6	1798.6	1776.3	1723.4	1717.3	1694.9
27.5°	1756.0	1760.0	1772.2	1770.2	1772.2	1760.0	1756.0	1747.8	1690.8	1684.8	1668.4
30°	1717.3	1713.2	1703.0	1694.9	1703.0	1713.2	1717.3	1705.1	1648.1	1631.9	1635.9
32.5°	1652.2	1642.0	1631.9	1625.7	1631.9	1642.0	1652.2	1648.1	1605.4	1583.0	1587.0
35°	1574.9	1576.9	1574.9	1568.7	1574.9	1576.9	1574.9	1579.0	1552.5	1532.1	1530.1
37.5°	1519.9	1524.0	1522.0	1513.8	1522.0	1524.0	1519.9	1515.8	1479.2	1473.2	1477.2
40°	1462.9	1465.0	1462.9	1456.8	1462.9	1465.0	1462.9	1454.8	1403.9	1405.9	1420.2
42.5°	1408.0	1405.9	1399.9	1395.8	1399.9	1405.9	1408.0	1395.8	1330.7	1324.6	1351.0
45°	1345.0	1347.0	1334.8	1328.6	1334.8	1347.0	1345.0	1336.8	1269.7	1253.4	1271.7
47.5°	1281.9	1281.9	1271.7	1265.6	1271.7	1281.9	1281.9	1271.7	1200.5	1184.2	1194.3
50°	1214.8	1212.7	1198.4	1196.4	1198.4	1212.7	1214.8	1208.6	1133.4	1119.1	1119.1
52.5°	1137.4	1137.4	1139.4	1143.5	1139.4	1137.4	1137.4	1139.4	1072.3	1058.1	1054.0
55°	1070.2	1072.3	1086.5	1090.6	1086.5	1072.3	1070.2	1070.2	1009.2	995.0	986.8
57.5°	1001.1	1001.1	1011.2	1011.2	1011.2	1001.1	1001.1	997.0	938.0	925.8	921.7
60°	921.7	925.8	933.9	931.9	933.9	925.8	921.7	917.7	866.8	858.6	844.4
62.5°	838.3	842.4	844.4	840.3	844.4	842.4	838.3	826.1	795.6	789.5	771.2
65°	750.8	754.9	756.9	752.8	756.9	754.9	750.8	744.7	722.3	712.2	695.8
67.5°	661.3	659.3	657.2	665.4	657.2	659.3	661.3	653.1	638.9	630.8	608.4
70°	569.7	569.7	567.6	571.7	567.6	569.7	569.7	563.6	555.5	549.4	529.0
72.5°	472.1	470.0	478.2	472.1	478.2	470.0	472.1	470.0	465.9	459.8	439.5
75°	376.5	380.5	376.5	382.5	376.5	380.5	376.5	378.5	376.5	372.4	358.1
77.5°	286.9	291.0	286.9	286.9	286.9	291.0	286.9	288.9	288.9	288.9	276.7
80°	203.4	201.4	201.4	199.4	201.4	201.4	203.4	203.4	205.5	201.4	197.4
82.5°	130.2	128.2	128.2	132.3	128.2	128.2	130.2	132.3	128.2	128.2	128.2
85°	71.2	73.2	69.1	69.1	69.1	73.2	71.2	67.1	71.2	71.2	69.1
87.5°	26.5	24.4	24.4	24.4	24.4	24.4	26.5	28.5	28.5	28.5	30.5
90°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	16.1	21.4	24.1	20.7
92.5°	60.3	57.9	48.3	38.7	48.3	57.9	60.3	85.5	119.0	135.8	119.3
95°	204.7	197.5	168.4	139.4	168.4	197.5	204.7	268.9	354.4	397.1	335.3
97.5°	472.6	458.8	403.5	348.2	403.5	458.8	472.6	513.1	567.2	594.2	491.3
100°	663.7	647.2	581.4	515.4	581.4	647.2	663.7	660.7	656.8	654.8	540.6
102.5°	826.8	812.7	756.3	699.9	756.3	812.7	826.8	775.2	706.4	672.0	556.2
105°	1017.3	1009.7	979.4	949.0	979.4	1009.7	1017.3	901.6	747.2	670.1	557.9
107.5°	1116.3	1118.2	1125.5	1132.8	1125.5	1118.2	1116.3	954.9	739.6	631.9	533.1
110°	1141.7	1149.6	1181.2	1212.8	1181.2	1149.6	1141.7	961.2	720.6	600.2	511.0



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1125.5	1137.7	1186.2	1234.7	1186.2	1137.7	1125.5	940.8	694.5	571.3	491.9
115°	1070.6	1087.4	1154.7	1222.0	1154.7	1087.4	1070.6	892.7	655.4	536.8	469.9
117.5°	994.8	1013.4	1088.1	1162.7	1088.1	1013.4	994.8	834.1	620.0	512.9	456.0
120°	943.6	961.7	1034.3	1106.8	1034.3	961.7	943.6	796.9	601.2	503.4	451.4
122.5°	892.6	910.4	982.0	1053.5	982.0	910.4	892.6	760.5	584.2	496.1	448.9
125°	825.0	841.5	907.3	973.2	907.3	841.5	825.0	712.7	563.0	488.2	446.9
127.5°	770.7	784.6	840.1	895.7	840.1	784.6	770.7	674.3	545.8	481.5	445.8
130°	736.4	749.2	800.6	851.9	800.6	749.2	736.4	650.6	536.2	478.9	446.4
132.5°	707.2	718.6	764.7	810.7	764.7	718.6	707.2	630.4	528.0	476.8	446.9
135°	665.9	675.8	715.5	755.1	715.5	675.8	665.9	601.6	515.8	472.9	446.4
137.5°	635.5	643.6	676.1	708.5	676.1	643.6	635.5	581.1	508.6	472.3	449.2
140°	611.0	618.5	648.9	679.2	648.9	618.5	611.0	564.0	501.4	470.1	449.7
142.5°	593.9	600.4	626.5	652.6	626.5	600.4	593.9	552.6	497.6	470.1	451.3
145°	568.2	573.1	592.9	612.6	592.9	573.1	568.2	534.5	489.4	466.9	451.4
147.5°	546.5	550.6	567.0	583.4	567.0	550.6	546.5	520.0	484.6	466.9	454.5
150°	534.2	537.5	550.8	564.0	550.8	537.5	534.2	511.8	481.9	466.9	456.1
152.5°	524.4	526.9	536.9	546.9	536.9	526.9	524.4	505.2	479.7	466.9	457.1
155°	512.6	514.3	520.9	527.5	520.9	514.3	512.6	497.3	477.1	466.9	459.5
157.5°	502.4	503.6	508.3	512.9	508.3	503.6	502.4	490.6	474.8	466.9	461.8
160°	497.3	498.0	500.7	503.4	500.7	498.0	497.3	487.2	473.7	466.9	462.8
162.5°	492.6	493.3	495.8	498.3	495.8	493.3	492.6	484.1	472.6	466.9	464.0
165°	485.3	486.0	488.6	491.3	488.6	486.0	485.3	479.2	471.0	466.9	465.5
167.5°	482.2	482.5	483.6	484.7	483.6	482.5	482.2	478.2	472.8	470.1	468.9
170°	482.2	482.2	482.2	482.2	482.2	482.2	482.2	478.2	472.8	470.1	470.0
172.5°	479.6	479.4	478.4	477.4	478.4	479.4	479.6	476.5	472.2	470.1	470.1
175°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	474.1	471.4	470.1	470.7
177.5°	475.5	475.2	474.1	472.9	474.1	475.2	475.5	473.9	471.8	470.7	471.2
180°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2124.2	2134.4	2140.5	2148.7	2169.0
5°	2042.8	2081.5	2093.7	2124.2	2160.9
7.5°	1863.8	1981.8	2014.3	2087.6	2144.6
10°	1690.8	1808.9	1865.8	2038.8	2124.2
12.5°	1603.4	1672.5	1711.2	1953.3	2095.7
15°	1548.4	1597.2	1625.7	1839.4	2063.2
17.5°	1505.7	1540.3	1560.6	1727.5	2018.4
20°	1479.2	1495.5	1513.8	1646.1	1967.6
22.5°	1460.9	1450.8	1465.0	1589.1	1898.4
25°	1448.7	1410.0	1426.3	1544.3	1817.0
27.5°	1458.9	1373.4	1379.5	1503.7	1731.5
30°	1460.9	1328.6	1330.7	1460.9	1635.9
32.5°	1446.7	1281.9	1283.9	1408.0	1528.1
35°	1412.1	1226.9	1224.9	1347.0	1381.5
37.5°	1365.3	1167.9	1167.9	1279.8	1220.8
40°	1308.3	1108.9	1115.0	1192.3	1078.4
42.5°	1239.2	1045.8	1054.0	1076.4	972.6
45°	1163.9	984.8	990.9	909.5	891.2
47.5°	1080.5	921.7	923.8	754.9	864.8
50°	980.7	856.6	848.5	647.0	862.7
52.5°	893.2	785.4	761.0	586.0	783.4
55°	807.8	710.1	657.2	539.2	726.4
57.5°	732.5	612.5	561.6	484.3	714.2
60°	663.3	516.8	478.2	425.3	655.2
62.5°	606.4	445.6	437.4	384.5	594.1
65°	545.3	396.8	394.7	350.0	504.6
67.5°	486.3	364.2	362.2	317.4	384.5
70°	423.2	329.6	325.6	282.8	284.8
72.5°	358.1	291.0	286.9	254.3	236.0
75°	293.0	246.2	244.2	221.8	191.3
77.5°	229.9	195.3	199.4	179.0	140.4
80°	164.8	142.5	146.5	128.2	105.8
82.5°	109.9	93.6	97.6	81.4	71.2
85°	61.1	52.9	54.9	42.7	32.6
87.5°	28.5	24.4	24.4	16.2	10.2
90°	13.9	8.9	8.2	5.7	3.2
92.5°	86.2	61.3	55.9	34.3	12.7
95°	211.9	119.4	109.5	70.0	30.5
97.5°	285.4	131.1	122.4	87.5	52.7
100°	312.2	140.9	133.0	101.4	69.8
102.5°	324.5	150.8	143.4	114.0	84.5
105°	333.6	165.4	159.2	134.1	109.2
107.5°	335.3	187.0	181.1	157.8	134.6
110°	332.8	199.0	193.8	172.7	151.7



TEST NUMBER: P934424

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	332.9	213.6	208.6	188.6	168.6
115°	336.0	235.5	230.9	212.4	194.0
117.5°	342.2	256.8	252.6	235.8	219.0
120°	347.3	269.2	265.3	249.4	233.6
122.5°	354.5	283.7	279.7	263.8	247.9
125°	364.4	302.5	298.8	284.3	269.8
127.5°	374.2	320.6	316.9	302.2	287.6
130°	381.4	332.6	328.7	312.9	297.1
132.5°	387.2	342.5	338.6	322.7	306.9
135°	393.5	353.9	350.3	336.0	321.6
137.5°	403.1	368.5	365.0	350.7	336.5
140°	408.9	378.4	375.1	362.0	348.8
142.5°	413.8	385.6	382.6	370.4	358.4
145°	420.2	396.8	394.2	383.5	373.0
147.5°	429.4	410.7	408.2	397.9	387.5
150°	434.4	418.0	415.7	406.4	397.1
152.5°	437.5	422.8	421.0	414.0	406.9
155°	444.5	433.3	432.0	426.7	421.5
157.5°	451.5	443.8	442.4	437.4	432.3
160°	454.7	448.5	447.5	443.6	439.6
162.5°	458.1	453.6	452.8	449.9	446.9
165°	462.8	460.8	460.2	457.5	454.8
167.5°	466.7	465.0	464.7	463.4	462.2
170°	469.9	469.8	469.5	468.2	466.9
172.5°	470.1	470.1	470.0	469.8	469.5
175°	472.0	472.9	472.9	472.9	472.9
177.5°	472.2	472.9	472.9	472.9	472.9
180°	472.9	472.9	472.9	472.9	472.9



TEST NUMBER: P934424
 CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-8

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	14.04	15.05	14.86	15.90	16.94	16.88	17.89	17.70	18.73	19.78
	3H	14.53	15.44	15.37	16.29	17.37	18.24	19.14	19.07	20.00	21.07
	4H	14.73	15.58	15.58	16.44	17.53	18.69	19.55	19.54	20.41	21.49
	6H	14.86	15.64	15.72	16.51	17.61	18.99	19.77	19.85	20.64	21.74
	8H	14.86	15.61	15.73	16.50	17.60	19.07	19.82	19.94	20.70	21.80
	12H	14.84	15.55	15.71	16.43	17.56	19.11	19.83	19.99	20.71	21.83
4H	2H	15.10	15.95	15.95	16.81	17.90	17.31	18.16	18.16	19.02	20.11
	3H	16.14	16.85	17.00	17.74	18.84	18.83	19.54	19.70	20.43	21.54
	4H	16.42	17.07	17.30	17.96	19.09	19.36	20.01	20.24	20.90	22.03
	6H	16.55	17.11	17.45	18.03	19.16	19.74	20.30	20.64	21.22	22.35
	8H	16.56	17.08	17.46	17.99	19.14	19.85	20.38	20.75	21.28	22.43
	12H	16.53	17.01	17.45	17.93	19.08	19.92	20.39	20.83	21.32	22.47
8H	4H	16.88	17.41	17.78	18.32	19.46	19.50	20.02	20.40	20.93	22.08
	6H	17.15	17.59	18.08	18.54	19.68	19.95	20.38	20.87	21.33	22.47
	8H	17.20	17.58	18.13	18.52	19.68	20.10	20.48	21.04	21.43	22.59
	12H	17.19	17.53	18.13	18.46	19.67	20.21	20.54	21.14	21.48	22.69
12H	4H	16.90	17.37	17.82	18.30	19.45	19.47	19.94	20.39	20.87	22.02
	6H	17.21	17.60	18.15	18.54	19.70	19.94	20.33	20.88	21.27	22.43
	8H	17.29	17.63	18.23	18.56	19.77	20.11	20.45	21.05	21.39	22.60