

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: P934471

Luminaire Tested: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

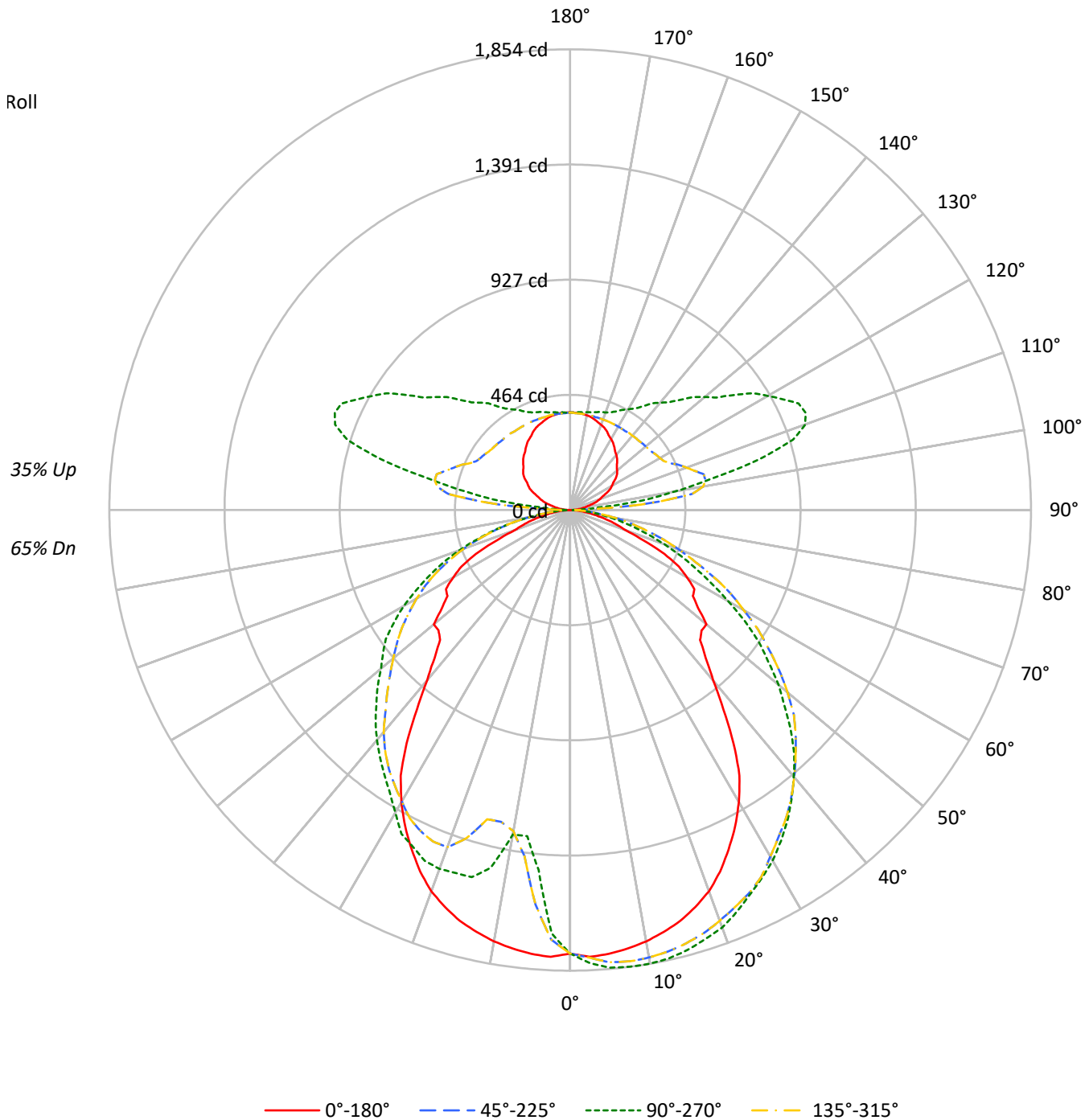
Test Method: LM-79-2019  
Report Number: P934471  
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7173.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 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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CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

### 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°	11040	11040	11040	11040
5°	11118	11144	11118	8763
10°	11040	10978	11040	7848
15°	10916	10740	10916	8968
20°	10684	10458	10684	8987
25°	10212	10047	10212	8796
30°	9604	9706	9604	8378
35°	8558	9274	8558	7919
40°	7127	8767	7127	7572
45°	6363	8172	6363	7172
50°	6756	7463	6756	6772
55°	6350	6698	6350	6540
60°	6538	5689	6538	5990
65°	5919	4702	5919	5257
70°	4087	3748	4087	4406
75°	3571	2771	3571	3318
80°	2858	1832	2858	1995
85°	1610	971	1610	824

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9760 cd/sqm



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CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.1	2.2
10°-20°	457.4	6.4
20°-30°	707.0	9.9
30°-40°	844.1	11.8
40°-50°	849.0	11.8
50°-60°	738.7	10.3
60°-70°	523.8	7.3
70°-80°	277.1	3.9
80°-90°	70.5	1.0
90°-100°	191.3	2.7
100°-110°	503.0	7.0
110°-120°	521.5	7.3
120°-130°	418.3	5.8
130°-140°	328.2	4.6
140°-150°	251.9	3.5
150°-160°	181.4	2.5
160°-170°	111.0	1.5
170°-180°	37.5	0.5
0°-30°	1325.5	18.5
0°-40°	2169.6	30.2
0°-60°	3757.3	52.4
0°-90°	4628.7	64.5
90°-120°	1215.8	16.9
90°-150°	2214.3	30.9
90°-180°	2544.0	35.5
0°-180°	7173.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1785	1785	1785	1785	1785	
5°	1793	1849	1793	1454	1793	170
15°	1712	1832	1712	1530	1712	482
25°	1508	1709	1508	1496	1508	692
35°	1146	1525	1146	1302	1146	709
45°	740	1256	740	1102	740	592
55°	603	927	603	905	603	554
65°	419	559	419	625	419	400
75°	159	265	159	318	159	167
85°	27	68	27	57	27	36
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	788	91	788	91	96
115°	161	1014	161	1014	161	159
125°	224	808	224	808	224	199
135°	267	627	267	627	267	206
145°	310	508	310	508	310	194
155°	350	438	350	438	350	161
165°	377	408	377	408	377	107
175°	392	395	392	395	392	37
180°	392	392	392	392	392	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1799.8	1799.8	1810.0	1813.3	1813.3	1808.3	1803.2	1808.3	1823.5	1828.6	1826.9
5°	1793.0	1806.6	1825.2	1828.6	1831.9	1830.2	1826.9	1830.2	1847.1	1850.5	1852.2
7.5°	1779.6	1804.9	1828.6	1833.6	1838.6	1833.6	1831.9	1835.3	1852.2	1855.6	1855.6
10°	1762.7	1798.1	1825.2	1828.6	1833.6	1828.6	1828.6	1835.3	1852.2	1855.6	1857.2
12.5°	1739.0	1788.0	1813.3	1816.7	1823.5	1821.7	1820.0	1826.9	1843.7	1847.1	1847.1
15°	1712.0	1769.4	1793.0	1796.4	1808.3	1804.9	1804.9	1811.6	1830.2	1835.3	1833.6
17.5°	1674.9	1745.7	1772.8	1777.9	1786.3	1784.6	1786.3	1793.0	1810.0	1813.3	1815.0
20°	1632.7	1713.7	1745.7	1750.9	1759.3	1759.3	1759.3	1767.7	1784.6	1791.4	1791.4
22.5°	1575.3	1680.0	1713.7	1717.1	1727.3	1727.3	1730.6	1742.4	1757.6	1759.3	1759.3
25°	1507.7	1642.8	1671.5	1681.6	1691.7	1696.8	1701.9	1708.7	1713.7	1712.0	1713.7
27.5°	1436.8	1595.5	1632.7	1639.4	1653.0	1658.0	1664.7	1666.4	1668.1	1673.2	1669.8
30°	1357.5	1529.7	1585.4	1592.1	1614.1	1617.4	1610.7	1614.1	1622.5	1626.0	1629.3
32.5°	1267.9	1431.8	1536.4	1551.7	1571.9	1561.7	1560.1	1565.1	1578.7	1578.7	1582.0
35°	1146.5	1355.8	1490.8	1504.4	1519.5	1507.7	1514.5	1516.1	1524.6	1529.7	1528.0
37.5°	1013.0	1289.9	1443.5	1453.7	1465.5	1450.4	1460.4	1465.5	1472.3	1468.9	1468.9
40°	894.9	1186.9	1387.8	1394.6	1404.8	1392.9	1403.1	1406.4	1409.8	1406.4	1404.8
42.5°	807.0	1073.8	1328.8	1337.2	1330.5	1338.9	1342.2	1349.1	1343.9	1337.2	1337.2
45°	739.5	1043.4	1264.6	1274.8	1264.6	1278.1	1283.2	1283.2	1267.9	1264.6	1262.9
47.5°	717.6	982.6	1200.5	1200.5	1195.4	1212.2	1220.7	1208.9	1193.7	1188.6	1188.6
50°	715.9	915.1	1112.6	1105.9	1129.5	1149.8	1141.3	1129.5	1117.7	1099.2	1099.2
52.5°	650.0	832.4	999.5	1024.9	1062.0	1073.8	1060.3	1048.5	1028.2	1019.8	1013.0
55°	602.8	746.3	896.6	947.2	986.0	1001.2	975.9	964.0	933.7	928.6	925.3
57.5°	592.7	621.4	802.0	866.1	913.4	911.7	896.6	874.6	849.3	844.2	842.5
60°	543.7	449.1	700.7	776.7	825.6	820.6	807.0	786.8	763.1	759.8	756.4
62.5°	493.0	325.9	585.8	672.0	741.2	739.5	727.7	697.3	680.4	672.0	665.2
65°	418.8	273.5	417.1	558.8	658.5	661.8	636.5	614.5	596.0	585.8	584.2
67.5°	319.1	222.9	281.9	466.0	579.1	575.8	543.7	533.5	509.9	504.8	494.7
70°	236.3	148.6	195.9	378.2	501.5	493.0	467.7	455.9	433.9	422.1	415.4
72.5°	195.9	119.9	143.5	293.8	422.1	411.9	390.0	376.5	357.9	347.8	341.1
75°	158.7	126.6	109.7	217.8	342.8	336.0	315.8	302.2	287.0	273.5	275.2
77.5°	116.5	118.2	87.8	160.4	271.8	261.7	249.9	233.0	226.2	212.7	212.7
80°	87.8	92.9	65.9	109.7	195.9	195.9	185.7	173.9	162.1	155.3	155.3
82.5°	59.1	59.1	49.0	69.2	133.4	128.3	121.6	118.2	111.4	108.0	108.0
85°	27.0	33.7	30.4	42.2	72.6	76.0	76.0	72.6	70.9	67.6	69.2
87.5°	8.4	15.2	18.6	23.6	37.1	38.9	40.6	40.6	40.6	42.2	42.2
90°	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3	10.0	10.0
92.5°	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9	50.0	48.1
95°	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1	169.9	163.8
97.5°	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8	392.2	380.7
100°	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3	550.8	537.2
102.5°	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3	686.2	674.5
105°	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1	844.2	837.9
107.5°	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4	926.4	927.9
110°	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7	947.5	954.1



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8	934.0	944.1
115°	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8	888.5	902.4
117.5°	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2	825.5	841.0
120°	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3	783.1	798.2
122.5°	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1	740.7	755.6
125°	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5	684.6	698.2
127.5°	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5	639.5	651.0
130°	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9	611.1	621.8
132.5°	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1	586.9	596.4
135°	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3	552.6	560.9
137.5°	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1	527.3	534.0
140°	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1	507.0	513.3
142.5°	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5	492.8	498.2
145°	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5	471.5	475.6
147.5°	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5	453.6	457.0
150°	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7	443.3	446.0
152.5°	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3	435.1	437.2
155°	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8	425.4	426.8
157.5°	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2	417.0	417.9
160°	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4	412.8	413.3
162.5°	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7	408.8	409.3
165°	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6	402.7	403.3
167.5°	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8	400.1	400.4
170°	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8	400.1	400.1
172.5°	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3	398.0	397.8
175°	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5	395.1	395.1
177.5°	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3	394.6	394.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1830.2	1825.2	1830.2	1826.9	1828.6	1823.5	1808.3	1803.2	1808.3	1813.3	1813.3
5°	1852.2	1848.8	1852.2	1852.2	1850.5	1847.1	1830.2	1826.9	1830.2	1831.9	1828.6
7.5°	1858.9	1853.9	1858.9	1855.6	1855.6	1852.2	1835.3	1831.9	1833.6	1838.6	1833.6
10°	1858.9	1853.9	1858.9	1857.2	1855.6	1852.2	1835.3	1828.6	1828.6	1833.6	1828.6
12.5°	1850.5	1847.1	1850.5	1847.1	1847.1	1843.7	1826.9	1820.0	1821.7	1823.5	1816.7
15°	1837.0	1831.9	1837.0	1833.6	1835.3	1830.2	1811.6	1804.9	1804.9	1808.3	1796.4
17.5°	1816.7	1810.0	1816.7	1815.0	1813.3	1810.0	1793.0	1786.3	1784.6	1786.3	1777.9
20°	1793.0	1788.0	1793.0	1791.4	1791.4	1784.6	1767.7	1759.3	1759.3	1759.3	1750.9
22.5°	1755.9	1750.9	1755.9	1759.3	1759.3	1757.6	1742.4	1730.6	1727.3	1727.3	1717.1
25°	1713.7	1708.7	1713.7	1713.7	1712.0	1713.7	1708.7	1701.9	1696.8	1691.7	1681.6
27.5°	1673.2	1669.8	1673.2	1669.8	1673.2	1668.1	1666.4	1664.7	1658.0	1653.0	1639.4
30°	1632.7	1629.3	1632.7	1629.3	1626.0	1622.5	1614.1	1610.7	1617.4	1614.1	1592.1
32.5°	1582.0	1578.7	1582.0	1582.0	1578.7	1578.7	1565.1	1560.1	1561.7	1571.9	1551.7
35°	1529.7	1524.6	1529.7	1528.0	1529.7	1524.6	1516.1	1514.5	1507.7	1519.5	1504.4
37.5°	1468.9	1463.8	1468.9	1468.9	1468.9	1472.3	1465.5	1460.4	1450.4	1465.5	1453.7
40°	1406.4	1399.7	1406.4	1404.8	1406.4	1409.8	1406.4	1403.1	1392.9	1404.8	1394.6
42.5°	1335.5	1333.8	1335.5	1337.2	1337.2	1343.9	1349.1	1342.2	1338.9	1330.5	1337.2
45°	1259.5	1256.2	1259.5	1262.9	1264.6	1267.9	1283.2	1283.2	1278.1	1264.6	1274.8
47.5°	1178.5	1170.1	1178.5	1188.6	1188.6	1193.7	1208.9	1220.7	1212.2	1195.4	1200.5
50°	1092.3	1094.1	1092.3	1099.2	1099.2	1117.7	1129.5	1141.3	1149.8	1129.5	1105.9
52.5°	1008.0	1006.3	1008.0	1013.0	1019.8	1028.2	1048.5	1060.3	1073.8	1062.0	1024.9
55°	923.6	926.9	923.6	925.3	928.6	933.7	964.0	975.9	1001.2	986.0	947.2
57.5°	839.1	834.0	839.1	842.5	844.2	849.3	874.6	896.6	911.7	913.4	866.1
60°	741.2	734.4	741.2	756.4	759.8	763.1	786.8	807.0	820.6	825.6	776.7
62.5°	655.1	643.3	655.1	665.2	672.0	680.4	697.3	727.7	739.5	741.2	672.0
65°	563.9	558.8	563.9	584.2	585.8	596.0	614.5	636.5	661.8	658.5	558.8
67.5°	481.2	481.2	481.2	494.7	504.8	509.9	533.5	543.7	575.8	579.1	466.0
70°	405.2	403.5	405.2	415.4	422.1	433.9	455.9	467.7	493.0	501.5	378.2
72.5°	332.6	330.9	332.6	341.1	347.8	357.9	376.5	390.0	411.9	422.1	293.8
75°	268.5	265.1	268.5	275.2	273.5	287.0	302.2	315.8	336.0	342.8	217.8
77.5°	206.0	206.0	206.0	212.7	212.7	226.2	233.0	249.9	261.7	271.8	160.4
80°	153.6	152.0	153.6	155.3	155.3	162.1	173.9	185.7	195.9	195.9	109.7
82.5°	108.0	104.7	108.0	108.0	108.0	111.4	118.2	121.6	128.3	133.4	69.2
85°	67.6	67.6	67.6	69.2	67.6	70.9	72.6	76.0	76.0	72.6	42.2
87.5°	43.9	42.2	43.9	42.2	42.2	40.6	40.6	40.6	38.9	37.1	23.6
90°	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2	11.6	7.4
92.5°	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0	71.5	50.9
95°	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3	175.9	99.0
97.5°	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8	236.9	108.8
100°	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7	259.1	117.0
102.5°	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5	269.3	125.2
105°	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0	276.8	137.3
107.5°	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4	278.3	155.1
110°	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1	276.1	165.1





TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2	276.2	177.3
115°	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9	278.8	195.4
117.5°	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5	284.0	213.1
120°	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5	288.1	223.4
122.5°	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5	294.2	235.5
125°	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9	302.4	251.0
127.5°	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9	310.6	266.1
130°	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4	316.5	276.0
132.5°	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9	321.4	284.2
135°	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5	326.7	293.7
137.5°	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8	334.5	305.8
140°	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2	339.4	314.0
142.5°	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5	343.4	320.0
145°	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5	348.7	329.3
147.5°	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1	356.4	340.9
150°	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5	360.5	346.9
152.5°	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3	363.0	350.9
155°	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3	368.8	359.5
157.5°	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2	374.6	368.2
160°	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1	377.3	372.2
162.5°	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0	380.1	376.4
165°	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4	384.2	382.5
167.5°	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2	387.3	385.9
170°	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0	390.0	389.9
172.5°	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6	391.7	392.5
177.5°	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1	391.9	392.5
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1810.0	1799.8	1799.8	1782.9	1776.2	1771.1	1762.7	1737.3	1730.6	1723.9	1734.0
5°	1825.2	1806.6	1793.0	1762.7	1737.3	1727.3	1695.1	1634.4	1593.8	1563.4	1546.6
7.5°	1828.6	1804.9	1779.6	1732.3	1671.5	1644.4	1546.6	1435.1	1404.8	1377.7	1360.8
10°	1825.2	1798.1	1762.7	1691.7	1548.3	1501.0	1403.1	1330.5	1311.9	1306.8	1311.9
12.5°	1813.3	1788.0	1739.0	1620.8	1419.9	1387.8	1330.5	1288.2	1284.9	1293.3	1338.9
15°	1793.0	1769.4	1712.0	1526.3	1349.1	1325.4	1284.9	1269.7	1288.2	1347.4	1484.1
17.5°	1772.8	1745.7	1674.9	1433.4	1295.0	1278.1	1249.4	1279.8	1384.5	1463.8	1509.4
20°	1745.7	1713.7	1632.7	1365.9	1256.2	1240.9	1227.5	1364.2	1443.5	1472.3	1497.6
22.5°	1713.7	1680.0	1575.3	1318.6	1215.6	1203.8	1212.2	1411.5	1443.5	1463.8	1485.8
25°	1671.5	1642.8	1507.7	1281.5	1183.6	1170.1	1202.2	1406.4	1425.0	1430.1	1474.0
27.5°	1632.7	1595.5	1436.8	1247.8	1144.7	1139.6	1210.6	1384.5	1398.0	1403.1	1450.4
30°	1585.4	1529.7	1357.5	1212.2	1104.2	1102.5	1212.2	1357.5	1354.1	1367.6	1414.8
32.5°	1536.4	1431.8	1267.9	1168.3	1065.3	1063.7	1200.5	1316.9	1313.5	1332.1	1367.6
35°	1490.8	1355.8	1146.5	1117.7	1016.4	1018.1	1171.8	1269.7	1271.4	1288.2	1310.2
37.5°	1443.5	1289.9	1013.0	1062.0	969.2	969.2	1132.9	1225.8	1222.4	1227.5	1257.8
40°	1387.8	1186.9	894.9	989.4	925.3	920.2	1085.6	1178.5	1166.6	1165.0	1207.2
42.5°	1328.8	1073.8	807.0	893.2	874.6	867.8	1028.2	1121.1	1099.2	1104.2	1158.2
45°	1264.6	1043.4	739.5	754.7	822.3	817.2	965.7	1055.2	1040.0	1053.6	1109.3
47.5°	1200.5	982.6	717.6	626.4	766.5	764.8	896.6	991.0	982.6	996.2	1055.2
50°	1112.6	915.1	715.9	536.9	704.1	710.8	813.8	928.6	928.6	940.4	1002.9
52.5°	999.5	832.4	650.0	486.2	631.4	651.7	741.2	874.6	878.0	889.7	945.5
55°	896.6	746.3	602.8	447.4	545.4	589.2	670.3	818.9	825.6	837.4	888.1
57.5°	802.0	621.4	592.7	401.8	466.0	508.2	607.8	764.8	768.2	778.4	827.3
60°	700.7	449.1	543.7	352.9	396.8	428.8	550.4	700.7	712.5	719.3	761.4
62.5°	585.8	325.9	493.0	319.1	363.0	369.8	503.1	639.9	655.1	660.1	685.5
65°	417.1	273.5	418.8	290.4	327.5	329.2	452.5	577.4	590.9	599.4	618.0
67.5°	281.9	222.9	319.1	263.4	300.5	302.2	403.5	504.8	523.4	530.1	542.0
70°	195.9	148.6	236.3	234.7	270.2	273.5	351.2	439.0	455.9	460.9	467.7
72.5°	143.5	119.9	195.9	211.0	238.0	241.5	297.2	364.7	381.6	386.6	390.0
75°	109.7	126.6	158.7	184.0	202.6	204.3	243.2	297.2	308.9	312.3	314.0
77.5°	87.8	118.2	116.5	148.6	165.5	162.1	190.8	229.6	239.8	239.8	239.8
80°	65.9	92.9	87.8	106.3	121.6	118.2	136.7	163.8	167.2	170.5	168.9
82.5°	49.0	59.1	59.1	67.6	81.0	77.7	91.2	106.3	106.3	106.3	109.7
85°	30.4	33.7	27.0	35.4	45.6	43.9	50.7	57.4	59.1	59.1	55.7
87.5°	18.6	15.2	8.4	13.5	20.3	20.3	23.6	25.3	23.6	23.6	23.6
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3
92.5°	46.3	28.5	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9
95°	90.8	58.0	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1
97.5°	101.6	72.7	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8
100°	110.4	84.2	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3
102.5°	119.0	94.6	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3
105°	132.1	111.4	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1
107.5°	150.3	131.0	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4
110°	160.8	143.3	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.1	156.5	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8
115°	191.6	176.3	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8
117.5°	209.6	195.7	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2
120°	220.1	207.0	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3
122.5°	232.2	219.0	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1
125°	248.0	235.9	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5
127.5°	263.0	250.8	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5
130°	272.8	259.7	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9
132.5°	281.0	267.9	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1
135°	290.7	278.8	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3
137.5°	302.8	291.0	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1
140°	311.2	300.4	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1
142.5°	317.5	307.4	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5
145°	327.1	318.3	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5
147.5°	338.8	330.2	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5
150°	345.0	337.3	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7
152.5°	349.4	343.5	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3
155°	358.4	354.2	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8
157.5°	367.2	363.0	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2
160°	371.3	368.1	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4
162.5°	375.8	373.3	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7
165°	381.9	379.7	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6
167.5°	385.6	384.5	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8
170°	389.6	388.5	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8
172.5°	390.0	389.9	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3
175°	392.5	392.5	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5
177.5°	392.5	392.5	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934471  
 CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1722.1	1717.1	1723.9	1705.3	1723.9	1717.1	1722.1	1734.0	1723.9	1730.6	1737.3
5°	1511.1	1502.7	1475.7	1453.7	1475.7	1502.7	1511.1	1546.6	1563.4	1593.8	1634.4
7.5°	1350.7	1343.9	1337.2	1323.7	1337.2	1343.9	1350.7	1360.8	1377.7	1404.8	1435.1
10°	1315.2	1316.9	1327.1	1325.4	1327.1	1316.9	1315.2	1311.9	1306.8	1311.9	1330.5
12.5°	1406.4	1421.6	1477.4	1474.0	1477.4	1421.6	1406.4	1338.9	1293.3	1284.9	1288.2
15°	1511.1	1516.1	1528.0	1529.7	1528.0	1516.1	1511.1	1484.1	1347.4	1288.2	1269.7
17.5°	1521.2	1523.0	1531.4	1531.4	1531.4	1523.0	1521.2	1509.4	1463.8	1384.5	1279.8
20°	1512.8	1516.1	1533.1	1536.4	1533.1	1516.1	1512.8	1497.6	1472.3	1443.5	1364.2
22.5°	1509.4	1516.1	1529.7	1528.0	1529.7	1516.1	1509.4	1485.8	1463.8	1443.5	1411.5
25°	1492.5	1492.5	1494.2	1495.9	1494.2	1492.5	1492.5	1474.0	1430.1	1425.0	1406.4
27.5°	1457.1	1460.4	1470.6	1468.9	1470.6	1460.4	1457.1	1450.4	1403.1	1398.0	1384.5
30°	1425.0	1421.6	1413.2	1406.4	1413.2	1421.6	1425.0	1414.8	1367.6	1354.1	1357.5
32.5°	1371.0	1362.5	1354.1	1349.1	1354.1	1362.5	1371.0	1367.6	1332.1	1313.5	1316.9
35°	1306.8	1308.5	1306.8	1301.8	1306.8	1308.5	1306.8	1310.2	1288.2	1271.4	1269.7
37.5°	1261.2	1264.6	1262.9	1256.2	1262.9	1264.6	1261.2	1257.8	1227.5	1222.4	1225.8
40°	1213.9	1215.6	1213.9	1208.9	1213.9	1215.6	1213.9	1207.2	1165.0	1166.6	1178.5
42.5°	1168.3	1166.6	1161.6	1158.2	1161.6	1166.6	1168.3	1158.2	1104.2	1099.2	1121.1
45°	1116.0	1117.7	1107.6	1102.5	1107.6	1117.7	1116.0	1109.3	1053.6	1040.0	1055.2
47.5°	1063.7	1063.7	1055.2	1050.2	1055.2	1063.7	1063.7	1055.2	996.2	982.6	991.0
50°	1008.0	1006.3	994.5	992.8	994.5	1006.3	1008.0	1002.9	940.4	928.6	928.6
52.5°	943.8	943.8	945.5	948.9	945.5	943.8	943.8	945.5	889.7	878.0	874.6
55°	888.1	889.7	901.6	905.0	901.6	889.7	888.1	888.1	837.4	825.6	818.9
57.5°	830.7	830.7	839.1	839.1	839.1	830.7	830.7	827.3	778.4	768.2	764.8
60°	764.8	768.2	775.0	773.3	775.0	768.2	764.8	761.4	719.3	712.5	700.7
62.5°	695.6	699.0	700.7	697.3	700.7	699.0	695.6	685.5	660.1	655.1	639.9
65°	623.0	626.4	628.1	624.7	628.1	626.4	623.0	618.0	599.4	590.9	577.4
67.5°	548.7	547.1	545.4	552.1	545.4	547.1	548.7	542.0	530.1	523.4	504.8
70°	472.8	472.8	471.1	474.4	471.1	472.8	472.8	467.7	460.9	455.9	439.0
72.5°	391.7	390.0	396.8	391.7	396.8	390.0	391.7	390.0	386.6	381.6	364.7
75°	312.3	315.8	312.3	317.5	312.3	315.8	312.3	314.0	312.3	308.9	297.2
77.5°	238.0	241.5	238.0	238.0	238.0	241.5	238.0	239.8	239.8	239.8	229.6
80°	168.9	167.2	167.2	165.5	167.2	167.2	168.9	168.9	170.5	167.2	163.8
82.5°	108.0	106.3	106.3	109.7	106.3	106.3	108.0	109.7	106.3	106.3	106.3
85°	59.1	60.7	57.4	57.4	57.4	60.7	59.1	55.7	59.1	59.1	57.4
87.5°	22.0	20.3	20.3	20.3	20.3	20.3	22.0	23.6	23.6	23.6	25.3
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2
92.5°	50.0	48.1	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0
95°	169.9	163.8	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3
97.5°	392.2	380.7	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8
100°	550.8	537.2	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7
102.5°	686.2	674.5	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5
105°	844.2	837.9	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0
107.5°	926.4	927.9	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4
110°	947.5	954.1	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	934.0	944.1	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2
115°	888.5	902.4	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9
117.5°	825.5	841.0	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5
120°	783.1	798.2	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5
122.5°	740.7	755.6	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5
125°	684.6	698.2	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9
127.5°	639.5	651.0	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9
130°	611.1	621.8	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4
132.5°	586.9	596.4	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9
135°	552.6	560.9	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5
137.5°	527.3	534.0	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8
140°	507.0	513.3	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2
142.5°	492.8	498.2	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5
145°	471.5	475.6	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5
147.5°	453.6	457.0	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1
150°	443.3	446.0	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5
152.5°	435.1	437.2	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3
155°	425.4	426.8	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3
157.5°	417.0	417.9	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2
160°	412.8	413.3	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1
162.5°	408.8	409.3	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0
165°	402.7	403.3	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4
167.5°	400.1	400.4	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2
170°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0
172.5°	398.0	397.8	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6
177.5°	394.6	394.3	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1762.7	1771.1	1776.2	1782.9	1799.8
5°	1695.1	1727.3	1737.3	1762.7	1793.0
7.5°	1546.6	1644.4	1671.5	1732.3	1779.6
10°	1403.1	1501.0	1548.3	1691.7	1762.7
12.5°	1330.5	1387.8	1419.9	1620.8	1739.0
15°	1284.9	1325.4	1349.1	1526.3	1712.0
17.5°	1249.4	1278.1	1295.0	1433.4	1674.9
20°	1227.5	1240.9	1256.2	1365.9	1632.7
22.5°	1212.2	1203.8	1215.6	1318.6	1575.3
25°	1202.2	1170.1	1183.6	1281.5	1507.7
27.5°	1210.6	1139.6	1144.7	1247.8	1436.8
30°	1212.2	1102.5	1104.2	1212.2	1357.5
32.5°	1200.5	1063.7	1065.3	1168.3	1267.9
35°	1171.8	1018.1	1016.4	1117.7	1146.5
37.5°	1132.9	969.2	969.2	1062.0	1013.0
40°	1085.6	920.2	925.3	989.4	894.9
42.5°	1028.2	867.8	874.6	893.2	807.0
45°	965.7	817.2	822.3	754.7	739.5
47.5°	896.6	764.8	766.5	626.4	717.6
50°	813.8	710.8	704.1	536.9	715.9
52.5°	741.2	651.7	631.4	486.2	650.0
55°	670.3	589.2	545.4	447.4	602.8
57.5°	607.8	508.2	466.0	401.8	592.7
60°	550.4	428.8	396.8	352.9	543.7
62.5°	503.1	369.8	363.0	319.1	493.0
65°	452.5	329.2	327.5	290.4	418.8
67.5°	403.5	302.2	300.5	263.4	319.1
70°	351.2	273.5	270.2	234.7	236.3
72.5°	297.2	241.5	238.0	211.0	195.9
75°	243.2	204.3	202.6	184.0	158.7
77.5°	190.8	162.1	165.5	148.6	116.5
80°	136.7	118.2	121.6	106.3	87.8
82.5°	91.2	77.7	81.0	67.6	59.1
85°	50.7	43.9	45.6	35.4	27.0
87.5°	23.6	20.3	20.3	13.5	8.4
90°	11.6	7.4	6.9	4.8	2.6
92.5°	71.5	50.9	46.3	28.5	10.6
95°	175.9	99.0	90.8	58.0	25.3
97.5°	236.9	108.8	101.6	72.7	43.7
100°	259.1	117.0	110.4	84.2	57.9
102.5°	269.3	125.2	119.0	94.6	70.0
105°	276.8	137.3	132.1	111.4	90.7
107.5°	278.3	155.1	150.3	131.0	111.7
110°	276.1	165.1	160.8	143.3	125.9



TEST NUMBER: P934471

CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	276.2	177.3	173.1	156.5	139.9
115°	278.8	195.4	191.6	176.3	160.9
117.5°	284.0	213.1	209.6	195.7	181.7
120°	288.1	223.4	220.1	207.0	193.8
122.5°	294.2	235.5	232.2	219.0	205.8
125°	302.4	251.0	248.0	235.9	223.9
127.5°	310.6	266.1	263.0	250.8	238.6
130°	316.5	276.0	272.8	259.7	246.6
132.5°	321.4	284.2	281.0	267.9	254.7
135°	326.7	293.7	290.7	278.8	266.8
137.5°	334.5	305.8	302.8	291.0	279.2
140°	339.4	314.0	311.2	300.4	289.5
142.5°	343.4	320.0	317.5	307.4	297.3
145°	348.7	329.3	327.1	318.3	309.5
147.5°	356.4	340.9	338.8	330.2	321.6
150°	360.5	346.9	345.0	337.3	329.6
152.5°	363.0	350.9	349.4	343.5	337.6
155°	368.8	359.5	358.4	354.2	349.8
157.5°	374.6	368.2	367.2	363.0	358.8
160°	377.3	372.2	371.3	368.1	364.8
162.5°	380.1	376.4	375.8	373.3	370.9
165°	384.2	382.5	381.9	379.7	377.4
167.5°	387.3	385.9	385.6	384.5	383.5
170°	390.0	389.9	389.6	388.5	387.5
172.5°	390.1	390.1	390.0	389.9	389.6
175°	391.7	392.5	392.5	392.5	392.5
177.5°	391.9	392.5	392.5	392.5	392.5
180°	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934471  
 CATALOG NUMBER: SQ4-FA-050U-100D-935-1D-UNV-STD-W-6

**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	14.39	15.40	15.21	16.24	17.29	17.21	18.22	18.03	19.07	20.11
	3H	14.88	15.78	15.71	16.64	17.71	18.57	19.47	19.40	20.33	21.40
	4H	15.08	15.93	15.93	16.79	17.88	19.02	19.87	19.87	20.73	21.82
	6H	15.20	15.99	16.07	16.86	17.96	19.31	20.10	20.17	20.97	22.07
	8H	15.21	15.96	16.08	16.84	17.94	19.39	20.14	20.26	21.02	22.12
	12H	15.18	15.90	16.06	16.78	17.90	19.43	20.15	20.31	21.03	22.15
4H	2H	15.44	16.29	16.29	17.15	18.24	17.64	18.50	18.50	19.36	20.44
	3H	16.48	17.19	17.35	18.08	19.19	19.16	19.87	20.03	20.76	21.87
	4H	16.76	17.41	17.64	18.30	19.43	19.69	20.34	20.57	21.23	22.36
	6H	16.90	17.46	17.79	18.37	19.50	20.06	20.62	20.96	21.54	22.67
	8H	16.90	17.43	17.80	18.34	19.48	20.17	20.70	21.07	21.61	22.75
	12H	16.88	17.35	17.80	18.28	19.43	20.24	20.71	21.15	21.64	22.78
8H	4H	17.23	17.75	18.12	18.66	19.80	19.83	20.35	20.73	21.26	22.40
	6H	17.49	17.93	18.42	18.88	20.02	20.27	20.70	21.19	21.65	22.80
	8H	17.54	17.92	18.47	18.86	20.02	20.42	20.81	21.36	21.75	22.91
	12H	17.53	17.87	18.47	18.80	20.01	20.53	20.86	21.46	21.80	23.01
12H	4H	17.24	17.71	18.16	18.64	19.79	19.80	20.27	20.72	21.20	22.35
	6H	17.56	17.94	18.49	18.88	20.04	20.27	20.65	21.20	21.59	22.76
	8H	17.63	17.97	18.57	18.90	20.11	20.43	20.77	21.37	21.71	22.92