

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: P934220

Luminaire Tested: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

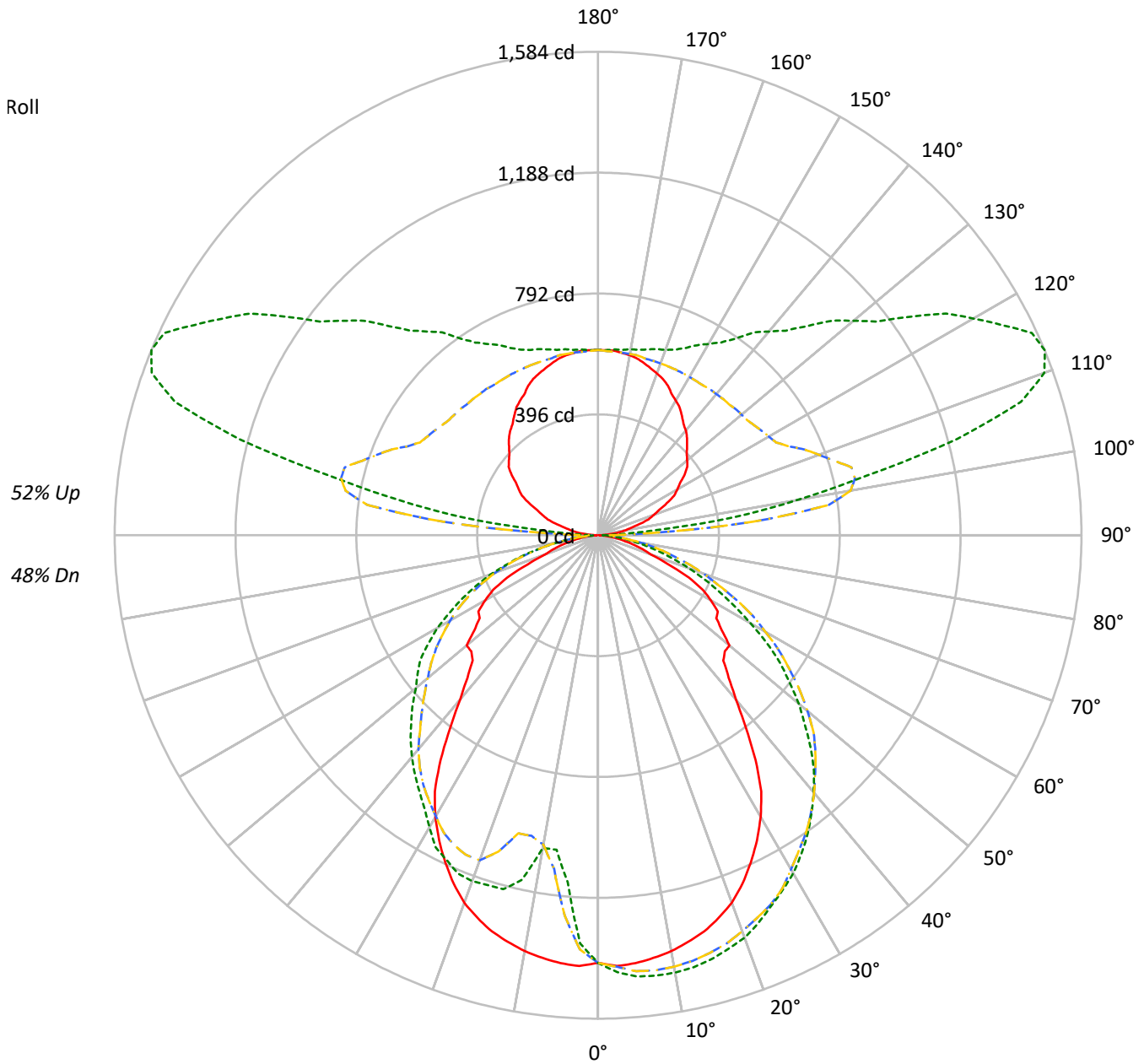
Test Method: LM-79-2019  
Report Number: P934220  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7568.1 lumens  
Efficiency: N/A  
Efficacy: 133.2 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: General Diffuse  
  
Input Watts (W): 56.8  
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

TEST NUMBER: P934220  
CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	1.7
10°-20°	359.0	4.7
20°-30°	555.0	7.3
30°-40°	662.5	8.8
40°-50°	666.4	8.8
50°-60°	579.8	7.7
60°-70°	411.1	5.4
70°-80°	217.5	2.9
80°-90°	56.5	0.7
90°-100°	295.8	3.9
100°-110°	777.7	10.3
110°-120°	806.4	10.7
120°-130°	646.8	8.5
130°-140°	507.5	6.7
140°-150°	389.5	5.1
150°-160°	280.5	3.7
160°-170°	171.6	2.3
170°-180°	58.0	0.8
0°-30°	1040.4	13.7
0°-40°	1702.9	22.5
0°-60°	2949.1	39.0
0°-90°	3634.2	48.0
90°-120°	1879.9	24.8
90°-150°	3423.7	45.2
90°-180°	3934.0	52.0
0°-180°	7568.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1401	1401	1401	1401	1401	
5°	1407	1451	1407	1141	1407	134
15°	1344	1438	1344	1201	1344	378
25°	1183	1341	1183	1174	1183	543
35°	900	1197	900	1022	900	557
45°	580	986	580	865	580	465
55°	473	728	473	710	473	435
65°	329	439	329	490	329	314
75°	125	208	125	249	125	131
85°	21	53	21	45	21	29
90°	4	16	4	16	4	4
95°	39	179	39	179	39	43
105°	140	1218	140	1218	140	149
115°	249	1568	249	1568	249	246
125°	346	1249	346	1249	346	307
135°	413	969	413	969	413	319
145°	479	786	479	786	479	300
155°	541	677	541	677	541	249
165°	584	630	584	630	584	165
175°	607	611	607	611	607	58
180°	607	607	607	607	607	



TEST NUMBER: P934220  
 CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1412.6	1412.6	1420.6	1423.3	1423.3	1419.3	1415.3	1419.3	1431.2	1435.2	1433.9
5°	1407.4	1418.0	1432.6	1435.2	1437.8	1436.6	1433.9	1436.6	1449.8	1452.5	1453.7
7.5°	1396.7	1416.7	1435.2	1439.2	1443.2	1439.2	1437.8	1440.5	1453.7	1456.4	1456.4
10°	1383.5	1411.4	1432.6	1435.2	1439.2	1435.2	1435.2	1440.5	1453.7	1456.4	1457.7
12.5°	1364.9	1403.4	1423.3	1425.9	1431.2	1429.9	1428.5	1433.9	1447.1	1449.8	1449.8
15°	1343.8	1388.8	1407.4	1410.0	1419.3	1416.7	1416.7	1421.9	1436.6	1440.5	1439.2
17.5°	1314.6	1370.3	1391.5	1395.5	1402.1	1400.8	1402.1	1407.4	1420.6	1423.3	1424.6
20°	1281.4	1345.1	1370.3	1374.2	1380.8	1380.8	1380.8	1387.4	1400.8	1406.0	1406.0
22.5°	1236.4	1318.6	1345.1	1347.7	1355.7	1355.7	1358.3	1367.6	1379.5	1380.8	1380.8
25°	1183.4	1289.4	1312.0	1319.9	1327.9	1331.8	1335.8	1341.1	1345.1	1343.8	1345.1
27.5°	1127.8	1252.3	1281.4	1286.8	1297.3	1301.4	1306.6	1308.0	1309.3	1313.2	1310.7
30°	1065.5	1200.6	1244.4	1249.7	1266.9	1269.6	1264.2	1266.9	1273.5	1276.2	1278.9
32.5°	995.2	1123.8	1206.0	1217.9	1233.8	1225.8	1224.5	1228.5	1239.1	1239.1	1241.7
35°	899.8	1064.2	1170.2	1180.8	1192.7	1183.4	1188.8	1190.0	1196.7	1200.6	1199.3
37.5°	795.1	1012.5	1133.0	1141.0	1150.3	1138.4	1146.3	1150.3	1155.6	1152.9	1152.9
40°	702.4	931.6	1089.4	1094.6	1102.6	1093.3	1101.2	1103.9	1106.6	1103.9	1102.6
42.5°	633.4	842.9	1042.9	1049.6	1044.2	1050.9	1053.5	1058.8	1054.9	1049.6	1049.6
45°	580.4	819.0	992.5	1000.5	992.5	1003.2	1007.2	1007.2	995.2	992.5	991.3
47.5°	563.3	771.2	942.3	942.3	938.2	951.5	958.2	948.9	936.9	933.0	933.0
50°	561.9	718.3	873.3	868.1	886.5	902.4	895.8	886.5	877.2	862.7	862.7
52.5°	510.2	653.4	784.6	804.4	833.6	842.9	832.2	823.0	807.1	800.4	795.1
55°	473.1	585.8	703.7	743.5	773.9	785.9	766.0	756.7	732.8	728.8	726.2
57.5°	465.2	487.7	629.5	679.8	716.9	715.6	703.7	686.5	666.6	662.7	661.3
60°	426.7	352.5	549.9	609.6	648.0	644.1	633.4	617.5	599.0	596.4	593.7
62.5°	387.0	255.8	459.8	527.4	581.7	580.4	571.2	547.4	534.0	527.4	522.2
65°	328.6	214.7	327.3	438.7	516.8	519.5	499.6	482.3	467.8	459.8	458.5
67.5°	250.5	175.0	221.3	365.8	454.6	451.9	426.7	418.8	400.2	396.3	388.3
70°	185.5	116.6	153.7	296.9	393.6	387.0	367.0	357.9	340.6	331.3	326.0
72.5°	153.7	94.1	112.6	230.6	331.3	323.4	306.1	295.5	281.0	273.0	267.6
75°	124.6	99.4	86.2	170.9	269.0	263.7	247.8	237.2	225.3	214.7	216.0
77.5°	91.5	92.8	68.9	125.9	213.4	205.4	196.1	182.9	177.5	167.0	167.0
80°	68.9	72.9	51.7	86.2	153.7	153.7	145.7	136.5	127.3	121.9	121.9
82.5°	46.3	46.3	38.4	54.3	104.7	100.7	95.4	92.8	87.4	84.8	84.8
85°	21.2	26.5	23.8	33.1	57.0	59.7	59.7	57.0	55.6	53.1	54.3
87.5°	6.6	12.0	14.6	18.6	29.1	30.5	31.8	31.8	31.8	33.1	33.1
90°	4.1	7.3	10.6	11.4	17.9	26.6	30.9	27.5	20.6	15.5	15.5
92.5°	16.3	44.0	71.7	78.6	110.6	153.0	174.3	152.7	109.7	77.4	74.3
95°	39.1	89.8	140.5	153.1	271.9	430.3	509.5	454.7	345.0	262.7	253.4
97.5°	67.6	112.2	157.0	168.2	366.3	630.3	762.4	727.8	658.4	606.4	588.7
100°	89.6	130.1	170.6	180.8	400.6	693.7	840.2	842.8	847.8	851.6	830.4
102.5°	108.4	146.2	184.0	193.5	416.3	713.6	862.2	906.4	994.7	1060.9	1042.8
105°	140.1	172.1	204.2	212.2	428.1	715.9	859.8	958.8	1156.8	1305.3	1295.6
107.5°	172.7	202.5	232.4	239.9	430.2	684.0	810.9	949.0	1225.2	1432.4	1434.8
110°	194.6	221.6	248.7	255.4	427.0	655.7	770.1	924.6	1233.3	1464.9	1475.1



TEST NUMBER: P934220  
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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.3	242.0	267.6	274.1	427.1	631.1	733.1	891.1	1207.1	1444.2	1459.8
115°	248.9	272.6	296.3	302.2	431.1	602.9	688.7	841.0	1145.4	1373.7	1395.3
117.5°	281.0	302.5	324.1	329.5	439.1	585.1	658.1	795.5	1070.3	1276.4	1300.3
120°	299.8	320.0	340.4	345.4	445.6	579.2	646.0	771.4	1022.5	1210.8	1234.0
122.5°	318.0	338.5	358.9	364.1	454.9	576.0	636.6	749.6	975.7	1145.3	1168.2
125°	346.2	364.8	383.4	388.1	467.5	573.4	626.4	722.4	914.5	1058.5	1079.7
127.5°	369.0	387.8	406.6	411.3	480.2	572.0	617.8	700.3	865.2	988.9	1006.7
130°	381.2	401.4	421.8	426.8	489.4	572.8	614.5	687.9	834.8	944.8	961.3
132.5°	393.8	414.1	434.4	439.5	496.9	573.4	611.8	677.5	808.9	907.4	922.1
135°	412.6	431.1	449.4	454.1	505.0	572.8	606.8	661.9	771.9	854.4	867.2
137.5°	431.8	450.0	468.3	472.9	517.2	576.4	606.0	652.6	745.6	815.4	825.8
140°	447.6	464.5	481.3	485.5	524.7	577.0	603.2	643.4	723.7	784.0	793.7
142.5°	459.8	475.3	490.9	494.8	531.0	579.1	603.2	638.4	709.1	762.0	770.4
145°	478.6	492.1	505.8	509.1	539.2	579.2	599.1	628.0	685.8	729.0	735.4
147.5°	497.3	510.5	523.7	527.0	551.0	583.1	599.1	621.8	667.2	701.3	706.5
150°	509.5	521.5	533.4	536.4	557.3	585.2	599.1	618.3	656.7	685.5	689.7
152.5°	522.2	531.2	540.2	542.5	561.4	586.6	599.1	615.5	648.2	672.8	676.1
155°	540.8	547.5	554.3	555.9	570.4	589.5	599.1	612.2	638.1	657.7	659.9
157.5°	554.7	561.2	567.7	569.4	579.3	592.5	599.1	609.2	629.5	644.7	646.2
160°	564.0	569.2	574.2	575.5	583.4	593.9	599.1	607.8	625.1	638.1	639.0
162.5°	573.4	577.3	581.0	582.0	587.8	595.4	599.1	606.4	621.2	632.1	632.9
165°	583.6	587.1	590.4	591.3	593.9	597.3	599.1	604.4	614.8	622.7	623.6
167.5°	593.0	594.6	596.3	596.7	598.8	601.7	603.2	606.6	613.5	618.7	619.1
170°	599.1	600.7	602.4	602.8	602.9	603.1	603.2	606.6	613.5	618.7	618.7
172.5°	602.4	602.8	603.1	603.2	603.2	603.2	603.2	605.9	611.4	615.4	615.1
175°	606.8	606.8	606.8	606.8	605.6	604.0	603.2	604.9	608.3	610.9	610.9
177.5°	606.8	606.8	606.8	606.8	605.8	604.6	604.0	605.3	608.0	610.1	609.7
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



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CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1436.6	1432.6	1436.6	1433.9	1435.2	1431.2	1419.3	1415.3	1419.3	1423.3	1423.3
5°	1453.7	1451.1	1453.7	1453.7	1452.5	1449.8	1436.6	1433.9	1436.6	1437.8	1435.2
7.5°	1459.1	1455.1	1459.1	1456.4	1456.4	1453.7	1440.5	1437.8	1439.2	1443.2	1439.2
10°	1459.1	1455.1	1459.1	1457.7	1456.4	1453.7	1440.5	1435.2	1435.2	1439.2	1435.2
12.5°	1452.5	1449.8	1452.5	1449.8	1449.8	1447.1	1433.9	1428.5	1429.9	1431.2	1425.9
15°	1441.8	1437.8	1441.8	1439.2	1440.5	1436.6	1421.9	1416.7	1416.7	1419.3	1410.0
17.5°	1425.9	1420.6	1425.9	1424.6	1423.3	1420.6	1407.4	1402.1	1400.8	1402.1	1395.5
20°	1407.4	1403.4	1407.4	1406.0	1406.0	1400.8	1387.4	1380.8	1380.8	1380.8	1374.2
22.5°	1378.3	1374.2	1378.3	1380.8	1380.8	1379.5	1367.6	1358.3	1355.7	1355.7	1347.7
25°	1345.1	1341.1	1345.1	1345.1	1343.8	1345.1	1341.1	1335.8	1331.8	1327.9	1319.9
27.5°	1313.2	1310.7	1313.2	1310.7	1313.2	1309.3	1308.0	1306.6	1301.4	1297.3	1286.8
30°	1281.4	1278.9	1281.4	1278.9	1276.2	1273.5	1266.9	1264.2	1269.6	1266.9	1249.7
32.5°	1241.7	1239.1	1241.7	1241.7	1239.1	1239.1	1228.5	1224.5	1225.8	1233.8	1217.9
35°	1200.6	1196.7	1200.6	1199.3	1200.6	1196.7	1190.0	1188.8	1183.4	1192.7	1180.8
37.5°	1152.9	1148.9	1152.9	1152.9	1152.9	1155.6	1150.3	1146.3	1138.4	1150.3	1141.0
40°	1103.9	1098.6	1103.9	1102.6	1103.9	1106.6	1103.9	1101.2	1093.3	1102.6	1094.6
42.5°	1048.3	1046.9	1048.3	1049.6	1049.6	1054.9	1058.8	1053.5	1050.9	1044.2	1049.6
45°	988.6	985.9	988.6	991.3	992.5	995.2	1007.2	1007.2	1003.2	992.5	1000.5
47.5°	925.0	918.3	925.0	933.0	933.0	936.9	948.9	958.2	951.5	938.2	942.3
50°	857.4	858.8	857.4	862.7	862.7	877.2	886.5	895.8	902.4	886.5	868.1
52.5°	791.2	789.8	791.2	795.1	800.4	807.1	823.0	832.2	842.9	833.6	804.4
55°	724.9	727.6	724.9	726.2	728.8	732.8	756.7	766.0	785.9	773.9	743.5
57.5°	658.6	654.6	658.6	661.3	662.7	666.6	686.5	703.7	715.6	716.9	679.8
60°	581.7	576.5	581.7	593.7	596.4	599.0	617.5	633.4	644.1	648.0	609.6
62.5°	514.2	504.9	514.2	522.2	527.4	534.0	547.4	571.2	580.4	581.7	527.4
65°	442.6	438.7	442.6	458.5	459.8	467.8	482.3	499.6	519.5	516.8	438.7
67.5°	377.7	377.7	377.7	388.3	396.3	400.2	418.8	426.7	451.9	454.6	365.8
70°	318.0	316.8	318.0	326.0	331.3	340.6	357.9	367.0	387.0	393.6	296.9
72.5°	261.0	259.7	261.0	267.6	273.0	281.0	295.5	306.1	323.4	331.3	230.6
75°	210.7	208.1	210.7	216.0	214.7	225.3	237.2	247.8	263.7	269.0	170.9
77.5°	161.6	161.6	161.6	167.0	167.0	177.5	182.9	196.1	205.4	213.4	125.9
80°	120.6	119.3	120.6	121.9	121.9	127.3	136.5	145.7	153.7	153.7	86.2
82.5°	84.8	82.2	84.8	84.8	84.8	87.4	92.8	95.4	100.7	104.7	54.3
85°	53.1	53.1	53.1	54.3	53.1	55.6	57.0	59.7	59.7	57.0	33.1
87.5°	34.5	33.1	34.5	33.1	33.1	31.8	31.8	31.8	30.5	29.1	18.6
90°	15.5	15.5	15.5	15.5	15.5	20.6	27.5	30.9	26.6	17.9	11.4
92.5°	61.9	49.7	61.9	74.3	77.4	109.7	152.7	174.3	153.0	110.6	78.6
95°	216.1	178.8	216.1	253.4	262.7	345.0	454.7	509.5	430.3	271.9	153.1
97.5°	517.7	446.8	517.7	588.7	606.4	658.4	727.8	762.4	630.3	366.3	168.2
100°	745.9	661.4	745.9	830.4	851.6	847.8	842.8	840.2	693.7	400.6	180.8
102.5°	970.4	898.0	970.4	1042.8	1060.9	994.7	906.4	862.2	713.6	416.3	193.5
105°	1256.6	1217.7	1256.6	1295.6	1305.3	1156.8	958.8	859.8	715.9	428.1	212.2
107.5°	1444.2	1453.5	1444.2	1434.8	1432.4	1225.2	949.0	810.9	684.0	430.2	239.9
110°	1515.6	1556.2	1515.6	1475.1	1464.9	1233.3	924.6	770.1	655.7	427.0	255.4





TEST NUMBER: P934220

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1522.0	1584.3	1522.0	1459.8	1444.2	1207.1	891.1	733.1	631.1	427.1	274.1
115°	1481.6	1568.0	1481.6	1395.3	1373.7	1145.4	841.0	688.7	602.9	431.1	302.2
117.5°	1396.1	1491.9	1396.1	1300.3	1276.4	1070.3	795.5	658.1	585.1	439.1	329.5
120°	1327.1	1420.2	1327.1	1234.0	1210.8	1022.5	771.4	646.0	579.2	445.6	345.4
122.5°	1260.0	1351.8	1260.0	1168.2	1145.3	975.7	749.6	636.6	576.0	454.9	364.1
125°	1164.2	1248.7	1164.2	1079.7	1058.5	914.5	722.4	626.4	573.4	467.5	388.1
127.5°	1078.0	1149.3	1078.0	1006.7	988.9	865.2	700.3	617.8	572.0	480.2	411.3
130°	1027.2	1093.1	1027.2	961.3	944.8	834.8	687.9	614.5	572.8	489.4	426.8
132.5°	981.2	1040.2	981.2	922.1	907.4	808.9	677.5	611.8	573.4	496.9	439.5
135°	918.0	968.9	918.0	867.2	854.4	771.9	661.9	606.8	572.8	505.0	454.1
137.5°	867.5	909.1	867.5	825.8	815.4	745.6	652.6	606.0	576.4	517.2	472.9
140°	832.6	871.5	832.6	793.7	784.0	723.7	643.4	603.2	577.0	524.7	485.5
142.5°	803.8	837.3	803.8	770.4	762.0	709.1	638.4	603.2	579.1	531.0	494.8
145°	760.8	786.1	760.8	735.4	729.0	685.8	628.0	599.1	579.2	539.2	509.1
147.5°	727.6	748.6	727.6	706.5	701.3	667.2	621.8	599.1	583.1	551.0	527.0
150°	706.7	723.7	706.7	689.7	685.5	656.7	618.3	599.1	585.2	557.3	536.4
152.5°	688.9	701.8	688.9	676.1	672.8	648.2	615.5	599.1	586.6	561.4	542.5
155°	668.4	676.9	668.4	659.9	657.7	638.1	612.2	599.1	589.5	570.4	555.9
157.5°	652.2	658.1	652.2	646.2	644.7	629.5	609.2	599.1	592.5	579.3	569.4
160°	642.5	646.0	642.5	639.0	638.1	625.1	607.8	599.1	593.9	583.4	575.5
162.5°	636.2	639.4	636.2	632.9	632.1	621.2	606.4	599.1	595.4	587.8	582.0
165°	627.0	630.4	627.0	623.6	622.7	614.8	604.4	599.1	597.3	593.9	591.3
167.5°	620.5	621.9	620.5	619.1	618.7	613.5	606.6	603.2	601.7	598.8	596.7
170°	618.7	618.7	618.7	618.7	618.7	613.5	606.6	603.2	603.1	602.9	602.8
172.5°	613.8	612.6	613.8	615.1	615.4	611.4	605.9	603.2	603.2	603.2	603.2
175°	610.9	610.9	610.9	610.9	610.9	608.3	604.9	603.2	604.0	605.6	606.8
177.5°	608.3	606.8	608.3	609.7	610.1	608.0	605.3	604.0	604.6	605.8	606.8
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934220  
 CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1420.6	1412.6	1412.6	1399.4	1394.2	1390.1	1383.5	1363.6	1358.3	1353.1	1361.0
5°	1432.6	1418.0	1407.4	1383.5	1363.6	1355.7	1330.5	1282.8	1251.0	1227.1	1213.9
7.5°	1435.2	1416.7	1396.7	1359.7	1312.0	1290.7	1213.9	1126.4	1102.6	1081.4	1068.1
10°	1432.6	1411.4	1383.5	1327.9	1215.2	1178.1	1101.2	1044.2	1029.7	1025.7	1029.7
12.5°	1423.3	1403.4	1364.9	1272.2	1114.5	1089.4	1044.2	1011.1	1008.5	1015.1	1050.9
15°	1407.4	1388.8	1343.8	1198.0	1058.8	1040.3	1008.5	996.6	1011.1	1057.6	1164.9
17.5°	1391.5	1370.3	1314.6	1125.1	1016.5	1003.2	980.7	1004.5	1086.7	1148.9	1184.7
20°	1370.3	1345.1	1281.4	1072.1	985.9	974.1	963.4	1070.8	1133.0	1155.6	1175.4
22.5°	1345.1	1318.6	1236.4	1035.0	954.1	944.9	951.5	1107.8	1133.0	1148.9	1166.1
25°	1312.0	1289.4	1183.4	1005.9	929.0	918.3	943.5	1103.9	1118.5	1122.5	1156.9
27.5°	1281.4	1252.3	1127.8	979.3	898.5	894.5	950.2	1086.7	1097.3	1101.2	1138.4
30°	1244.4	1200.6	1065.5	951.5	866.7	865.4	951.5	1065.5	1062.8	1073.5	1110.5
32.5°	1206.0	1123.8	995.2	917.1	836.2	834.9	942.3	1033.6	1031.0	1045.6	1073.5
35°	1170.2	1064.2	899.8	877.2	797.8	799.1	919.7	996.6	997.9	1011.1	1028.4
37.5°	1133.0	1012.5	795.1	833.6	760.7	760.7	889.2	962.1	959.4	963.4	987.3
40°	1089.4	931.6	702.4	776.6	726.2	722.2	852.2	925.0	915.7	914.4	947.5
42.5°	1042.9	842.9	633.4	701.1	686.5	681.1	807.1	879.9	862.7	866.7	909.1
45°	992.5	819.0	580.4	592.4	645.4	641.4	758.0	828.2	816.3	827.0	870.6
47.5°	942.3	771.2	563.3	491.6	601.7	600.3	703.7	777.9	771.2	781.9	828.2
50°	873.3	718.3	561.9	421.4	552.6	557.9	638.7	728.8	728.8	738.1	787.1
52.5°	784.6	653.4	510.2	381.7	495.6	511.5	581.7	686.5	689.1	698.4	742.1
55°	703.7	585.8	473.1	351.1	428.0	462.5	526.1	642.7	648.0	657.3	697.0
57.5°	629.5	487.7	465.2	315.4	365.8	398.9	477.1	600.3	603.0	610.9	649.3
60°	549.9	352.5	426.7	276.9	311.4	336.6	432.1	549.9	559.2	564.5	597.6
62.5°	459.8	255.8	387.0	250.5	284.9	290.2	394.9	502.3	514.2	518.2	538.1
65°	327.3	214.7	328.6	227.9	257.1	258.5	355.2	453.2	463.9	470.5	485.0
67.5°	221.3	175.0	250.5	206.7	235.9	237.2	316.8	396.3	410.8	416.1	425.4
70°	153.7	116.6	185.5	184.2	212.0	214.7	275.7	344.5	357.9	361.8	367.0
72.5°	112.6	94.1	153.7	165.7	186.8	189.5	233.3	286.2	299.5	303.5	306.1
75°	86.2	99.4	124.6	144.4	159.1	160.4	190.8	233.3	242.6	245.1	246.5
77.5°	68.9	92.8	91.5	116.6	129.8	127.3	149.8	180.2	188.2	188.2	188.2
80°	51.7	72.9	68.9	83.5	95.4	92.8	107.3	128.5	131.2	133.9	132.5
82.5°	38.4	46.3	46.3	53.1	63.6	61.0	71.5	83.5	83.5	83.5	86.2
85°	23.8	26.5	21.2	27.9	35.8	34.5	39.7	45.1	46.3	46.3	43.8
87.5°	14.6	12.0	6.6	10.6	15.9	15.9	18.6	19.9	18.6	18.6	18.6
90°	10.6	7.3	4.1	7.3	10.6	11.4	17.9	26.6	30.9	27.5	20.6
92.5°	71.7	44.0	16.3	44.0	71.7	78.6	110.6	153.0	174.3	152.7	109.7
95°	140.5	89.8	39.1	89.8	140.5	153.1	271.9	430.3	509.5	454.7	345.0
97.5°	157.0	112.2	67.6	112.2	157.0	168.2	366.3	630.3	762.4	727.8	658.4
100°	170.6	130.1	89.6	130.1	170.6	180.8	400.6	693.7	840.2	842.8	847.8
102.5°	184.0	146.2	108.4	146.2	184.0	193.5	416.3	713.6	862.2	906.4	994.7
105°	204.2	172.1	140.1	172.1	204.2	212.2	428.1	715.9	859.8	958.8	1156.8
107.5°	232.4	202.5	172.7	202.5	232.4	239.9	430.2	684.0	810.9	949.0	1225.2
110°	248.7	221.6	194.6	221.6	248.7	255.4	427.0	655.7	770.1	924.6	1233.3



TEST NUMBER: P934220

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	267.6	242.0	216.3	242.0	267.6	274.1	427.1	631.1	733.1	891.1	1207.1
115°	296.3	272.6	248.9	272.6	296.3	302.2	431.1	602.9	688.7	841.0	1145.4
117.5°	324.1	302.5	281.0	302.5	324.1	329.5	439.1	585.1	658.1	795.5	1070.3
120°	340.4	320.0	299.8	320.0	340.4	345.4	445.6	579.2	646.0	771.4	1022.5
122.5°	358.9	338.5	318.0	338.5	358.9	364.1	454.9	576.0	636.6	749.6	975.7
125°	383.4	364.8	346.2	364.8	383.4	388.1	467.5	573.4	626.4	722.4	914.5
127.5°	406.6	387.8	369.0	387.8	406.6	411.3	480.2	572.0	617.8	700.3	865.2
130°	421.8	401.4	381.2	401.4	421.8	426.8	489.4	572.8	614.5	687.9	834.8
132.5°	434.4	414.1	393.8	414.1	434.4	439.5	496.9	573.4	611.8	677.5	808.9
135°	449.4	431.1	412.6	431.1	449.4	454.1	505.0	572.8	606.8	661.9	771.9
137.5°	468.3	450.0	431.8	450.0	468.3	472.9	517.2	576.4	606.0	652.6	745.6
140°	481.3	464.5	447.6	464.5	481.3	485.5	524.7	577.0	603.2	643.4	723.7
142.5°	490.9	475.3	459.8	475.3	490.9	494.8	531.0	579.1	603.2	638.4	709.1
145°	505.8	492.1	478.6	492.1	505.8	509.1	539.2	579.2	599.1	628.0	685.8
147.5°	523.7	510.5	497.3	510.5	523.7	527.0	551.0	583.1	599.1	621.8	667.2
150°	533.4	521.5	509.5	521.5	533.4	536.4	557.3	585.2	599.1	618.3	656.7
152.5°	540.2	531.2	522.2	531.2	540.2	542.5	561.4	586.6	599.1	615.5	648.2
155°	554.3	547.5	540.8	547.5	554.3	555.9	570.4	589.5	599.1	612.2	638.1
157.5°	567.7	561.2	554.7	561.2	567.7	569.4	579.3	592.5	599.1	609.2	629.5
160°	574.2	569.2	564.0	569.2	574.2	575.5	583.4	593.9	599.1	607.8	625.1
162.5°	581.0	577.3	573.4	577.3	581.0	582.0	587.8	595.4	599.1	606.4	621.2
165°	590.4	587.1	583.6	587.1	590.4	591.3	593.9	597.3	599.1	604.4	614.8
167.5°	596.3	594.6	593.0	594.6	596.3	596.7	598.8	601.7	603.2	606.6	613.5
170°	602.4	600.7	599.1	600.7	602.4	602.8	602.9	603.1	603.2	606.6	613.5
172.5°	603.1	602.8	602.4	602.8	603.1	603.2	603.2	603.2	603.2	605.9	611.4
175°	606.8	606.8	606.8	606.8	606.8	606.8	605.6	604.0	603.2	604.9	608.3
177.5°	606.8	606.8	606.8	606.8	606.8	606.8	605.8	604.6	604.0	605.3	608.0
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934220  
 CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1351.7	1347.7	1353.1	1338.4	1353.1	1347.7	1351.7	1361.0	1353.1	1358.3	1363.6
5°	1186.1	1179.5	1158.2	1141.0	1158.2	1179.5	1186.1	1213.9	1227.1	1251.0	1282.8
7.5°	1060.1	1054.9	1049.6	1039.0	1049.6	1054.9	1060.1	1068.1	1081.4	1102.6	1126.4
10°	1032.4	1033.6	1041.6	1040.3	1041.6	1033.6	1032.4	1029.7	1025.7	1029.7	1044.2
12.5°	1103.9	1115.8	1159.5	1156.9	1159.5	1115.8	1103.9	1050.9	1015.1	1008.5	1011.1
15°	1186.1	1190.0	1199.3	1200.6	1199.3	1190.0	1186.1	1164.9	1057.6	1011.1	996.6
17.5°	1194.0	1195.4	1202.0	1202.0	1202.0	1195.4	1194.0	1184.7	1148.9	1086.7	1004.5
20°	1187.4	1190.0	1203.3	1206.0	1203.3	1190.0	1187.4	1175.4	1155.6	1133.0	1070.8
22.5°	1184.7	1190.0	1200.6	1199.3	1200.6	1190.0	1184.7	1166.1	1148.9	1133.0	1107.8
25°	1171.5	1171.5	1172.9	1174.1	1172.9	1171.5	1171.5	1156.9	1122.5	1118.5	1103.9
27.5°	1143.6	1146.3	1154.3	1152.9	1154.3	1146.3	1143.6	1138.4	1101.2	1097.3	1086.7
30°	1118.5	1115.8	1109.2	1103.9	1109.2	1115.8	1118.5	1110.5	1073.5	1062.8	1065.5
32.5°	1076.0	1069.4	1062.8	1058.8	1062.8	1069.4	1076.0	1073.5	1045.6	1031.0	1033.6
35°	1025.7	1027.0	1025.7	1021.7	1025.7	1027.0	1025.7	1028.4	1011.1	997.9	996.6
37.5°	990.0	992.5	991.3	985.9	991.3	992.5	990.0	987.3	963.4	959.4	962.1
40°	952.8	954.1	952.8	948.9	952.8	954.1	952.8	947.5	914.4	915.7	925.0
42.5°	917.1	915.7	911.7	909.1	911.7	915.7	917.1	909.1	866.7	862.7	879.9
45°	876.0	877.2	869.3	865.4	869.3	877.2	876.0	870.6	827.0	816.3	828.2
47.5°	834.9	834.9	828.2	824.3	828.2	834.9	834.9	828.2	781.9	771.2	777.9
50°	791.2	789.8	780.5	779.2	780.5	789.8	791.2	787.1	738.1	728.8	728.8
52.5°	740.8	740.8	742.1	744.8	742.1	740.8	740.8	742.1	698.4	689.1	686.5
55°	697.0	698.4	707.7	710.3	707.7	698.4	697.0	697.0	657.3	648.0	642.7
57.5°	652.0	652.0	658.6	658.6	658.6	652.0	652.0	649.3	610.9	603.0	600.3
60°	600.3	603.0	608.3	606.9	608.3	603.0	600.3	597.6	564.5	559.2	549.9
62.5°	546.0	548.6	549.9	547.4	549.9	548.6	546.0	538.1	518.2	514.2	502.3
65°	489.0	491.6	493.0	490.3	493.0	491.6	489.0	485.0	470.5	463.9	453.2
67.5°	430.7	429.4	428.0	433.3	428.0	429.4	430.7	425.4	416.1	410.8	396.3
70°	371.1	371.1	369.7	372.4	369.7	371.1	371.1	367.0	361.8	357.9	344.5
72.5°	307.5	306.1	311.4	307.5	311.4	306.1	307.5	306.1	303.5	299.5	286.2
75°	245.1	247.8	245.1	249.2	245.1	247.8	245.1	246.5	245.1	242.6	233.3
77.5°	186.8	189.5	186.8	186.8	186.8	189.5	186.8	188.2	188.2	188.2	180.2
80°	132.5	131.2	131.2	129.8	131.2	131.2	132.5	132.5	133.9	131.2	128.5
82.5°	84.8	83.5	83.5	86.2	83.5	83.5	84.8	86.2	83.5	83.5	83.5
85°	46.3	47.7	45.1	45.1	45.1	47.7	46.3	43.8	46.3	46.3	45.1
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.6	18.6	18.6	19.9
90°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	20.6	27.5	30.9	26.6
92.5°	77.4	74.3	61.9	49.7	61.9	74.3	77.4	109.7	152.7	174.3	153.0
95°	262.7	253.4	216.1	178.8	216.1	253.4	262.7	345.0	454.7	509.5	430.3
97.5°	606.4	588.7	517.7	446.8	517.7	588.7	606.4	658.4	727.8	762.4	630.3
100°	851.6	830.4	745.9	661.4	745.9	830.4	851.6	847.8	842.8	840.2	693.7
102.5°	1060.9	1042.8	970.4	898.0	970.4	1042.8	1060.9	994.7	906.4	862.2	713.6
105°	1305.3	1295.6	1256.6	1217.7	1256.6	1295.6	1305.3	1156.8	958.8	859.8	715.9
107.5°	1432.4	1434.8	1444.2	1453.5	1444.2	1434.8	1432.4	1225.2	949.0	810.9	684.0
110°	1464.9	1475.1	1515.6	1556.2	1515.6	1475.1	1464.9	1233.3	924.6	770.1	655.7



TEST NUMBER: P934220

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1444.2	1459.8	1522.0	1584.3	1522.0	1459.8	1444.2	1207.1	891.1	733.1	631.1
115°	1373.7	1395.3	1481.6	1568.0	1481.6	1395.3	1373.7	1145.4	841.0	688.7	602.9
117.5°	1276.4	1300.3	1396.1	1491.9	1396.1	1300.3	1276.4	1070.3	795.5	658.1	585.1
120°	1210.8	1234.0	1327.1	1420.2	1327.1	1234.0	1210.8	1022.5	771.4	646.0	579.2
122.5°	1145.3	1168.2	1260.0	1351.8	1260.0	1168.2	1145.3	975.7	749.6	636.6	576.0
125°	1058.5	1079.7	1164.2	1248.7	1164.2	1079.7	1058.5	914.5	722.4	626.4	573.4
127.5°	988.9	1006.7	1078.0	1149.3	1078.0	1006.7	988.9	865.2	700.3	617.8	572.0
130°	944.8	961.3	1027.2	1093.1	1027.2	961.3	944.8	834.8	687.9	614.5	572.8
132.5°	907.4	922.1	981.2	1040.2	981.2	922.1	907.4	808.9	677.5	611.8	573.4
135°	854.4	867.2	918.0	968.9	918.0	867.2	854.4	771.9	661.9	606.8	572.8
137.5°	815.4	825.8	867.5	909.1	867.5	825.8	815.4	745.6	652.6	606.0	576.4
140°	784.0	793.7	832.6	871.5	832.6	793.7	784.0	723.7	643.4	603.2	577.0
142.5°	762.0	770.4	803.8	837.3	803.8	770.4	762.0	709.1	638.4	603.2	579.1
145°	729.0	735.4	760.8	786.1	760.8	735.4	729.0	685.8	628.0	599.1	579.2
147.5°	701.3	706.5	727.6	748.6	727.6	706.5	701.3	667.2	621.8	599.1	583.1
150°	685.5	689.7	706.7	723.7	706.7	689.7	685.5	656.7	618.3	599.1	585.2
152.5°	672.8	676.1	688.9	701.8	688.9	676.1	672.8	648.2	615.5	599.1	586.6
155°	657.7	659.9	668.4	676.9	668.4	659.9	657.7	638.1	612.2	599.1	589.5
157.5°	644.7	646.2	652.2	658.1	652.2	646.2	644.7	629.5	609.2	599.1	592.5
160°	638.1	639.0	642.5	646.0	642.5	639.0	638.1	625.1	607.8	599.1	593.9
162.5°	632.1	632.9	636.2	639.4	636.2	632.9	632.1	621.2	606.4	599.1	595.4
165°	622.7	623.6	627.0	630.4	627.0	623.6	622.7	614.8	604.4	599.1	597.3
167.5°	618.7	619.1	620.5	621.9	620.5	619.1	618.7	613.5	606.6	603.2	601.7
170°	618.7	618.7	618.7	618.7	618.7	618.7	618.7	613.5	606.6	603.2	603.1
172.5°	615.4	615.1	613.8	612.6	613.8	615.1	615.4	611.4	605.9	603.2	603.2
175°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	608.3	604.9	603.2	604.0
177.5°	610.1	609.7	608.3	606.8	608.3	609.7	610.1	608.0	605.3	604.0	604.6
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934220

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1383.5	1390.1	1394.2	1399.4	1412.6
5°	1330.5	1355.7	1363.6	1383.5	1407.4
7.5°	1213.9	1290.7	1312.0	1359.7	1396.7
10°	1101.2	1178.1	1215.2	1327.9	1383.5
12.5°	1044.2	1089.4	1114.5	1272.2	1364.9
15°	1008.5	1040.3	1058.8	1198.0	1343.8
17.5°	980.7	1003.2	1016.5	1125.1	1314.6
20°	963.4	974.1	985.9	1072.1	1281.4
22.5°	951.5	944.9	954.1	1035.0	1236.4
25°	943.5	918.3	929.0	1005.9	1183.4
27.5°	950.2	894.5	898.5	979.3	1127.8
30°	951.5	865.4	866.7	951.5	1065.5
32.5°	942.3	834.9	836.2	917.1	995.2
35°	919.7	799.1	797.8	877.2	899.8
37.5°	889.2	760.7	760.7	833.6	795.1
40°	852.2	722.2	726.2	776.6	702.4
42.5°	807.1	681.1	686.5	701.1	633.4
45°	758.0	641.4	645.4	592.4	580.4
47.5°	703.7	600.3	601.7	491.6	563.3
50°	638.7	557.9	552.6	421.4	561.9
52.5°	581.7	511.5	495.6	381.7	510.2
55°	526.1	462.5	428.0	351.1	473.1
57.5°	477.1	398.9	365.8	315.4	465.2
60°	432.1	336.6	311.4	276.9	426.7
62.5°	394.9	290.2	284.9	250.5	387.0
65°	355.2	258.5	257.1	227.9	328.6
67.5°	316.8	237.2	235.9	206.7	250.5
70°	275.7	214.7	212.0	184.2	185.5
72.5°	233.3	189.5	186.8	165.7	153.7
75°	190.8	160.4	159.1	144.4	124.6
77.5°	149.8	127.3	129.8	116.6	91.5
80°	107.3	92.8	95.4	83.5	68.9
82.5°	71.5	61.0	63.6	53.1	46.3
85°	39.7	34.5	35.8	27.9	21.2
87.5°	18.6	15.9	15.9	10.6	6.6
90°	17.9	11.4	10.6	7.3	4.1
92.5°	110.6	78.6	71.7	44.0	16.3
95°	271.9	153.1	140.5	89.8	39.1
97.5°	366.3	168.2	157.0	112.2	67.6
100°	400.6	180.8	170.6	130.1	89.6
102.5°	416.3	193.5	184.0	146.2	108.4
105°	428.1	212.2	204.2	172.1	140.1
107.5°	430.2	239.9	232.4	202.5	172.7
110°	427.0	255.4	248.7	221.6	194.6



TEST NUMBER: P934220

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	427.1	274.1	267.6	242.0	216.3
115°	431.1	302.2	296.3	272.6	248.9
117.5°	439.1	329.5	324.1	302.5	281.0
120°	445.6	345.4	340.4	320.0	299.8
122.5°	454.9	364.1	358.9	338.5	318.0
125°	467.5	388.1	383.4	364.8	346.2
127.5°	480.2	411.3	406.6	387.8	369.0
130°	489.4	426.8	421.8	401.4	381.2
132.5°	496.9	439.5	434.4	414.1	393.8
135°	505.0	454.1	449.4	431.1	412.6
137.5°	517.2	472.9	468.3	450.0	431.8
140°	524.7	485.5	481.3	464.5	447.6
142.5°	531.0	494.8	490.9	475.3	459.8
145°	539.2	509.1	505.8	492.1	478.6
147.5°	551.0	527.0	523.7	510.5	497.3
150°	557.3	536.4	533.4	521.5	509.5
152.5°	561.4	542.5	540.2	531.2	522.2
155°	570.4	555.9	554.3	547.5	540.8
157.5°	579.3	569.4	567.7	561.2	554.7
160°	583.4	575.5	574.2	569.2	564.0
162.5°	587.8	582.0	581.0	577.3	573.4
165°	593.9	591.3	590.4	587.1	583.6
167.5°	598.8	596.7	596.3	594.6	593.0
170°	602.9	602.8	602.4	600.7	599.1
172.5°	603.2	603.2	603.1	602.8	602.4
175°	605.6	606.8	606.8	606.8	606.8
177.5°	605.8	606.8	606.8	606.8	606.8
180°	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934220  
 CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-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	11.12	11.97	12.10	12.96	14.26	13.96	14.81	14.94	15.79	17.09
	3H	11.60	12.36	12.58	13.35	14.67	15.31	16.06	16.29	17.06	18.38
	4H	11.79	12.51	12.79	13.51	14.84	15.75	16.47	16.75	17.47	18.80
	6H	11.91	12.57	12.92	13.57	14.91	16.04	16.70	17.05	17.70	19.04
	8H	11.91	12.54	12.92	13.56	14.90	16.11	16.74	17.13	17.76	19.10
	12H	11.88	12.48	12.90	13.49	14.85	16.15	16.75	17.17	17.77	19.13
4H	2H	12.16	12.87	13.16	13.87	15.20	14.37	15.08	15.37	16.08	17.41
	3H	13.18	13.78	14.20	14.81	16.15	15.88	16.47	16.89	17.50	18.84
	4H	13.46	14.00	14.48	15.02	16.39	16.40	16.95	17.43	17.97	19.34
	6H	13.58	14.05	14.61	15.10	16.46	16.77	17.24	17.80	18.28	19.65
	8H	13.59	14.02	14.62	15.06	16.44	16.88	17.32	17.91	18.35	19.73
	12H	13.55	13.95	14.60	15.00	16.38	16.93	17.33	17.99	18.38	19.77
8H	4H	13.91	14.35	14.94	15.39	16.76	16.53	16.96	17.56	18.00	19.38
	6H	14.17	14.53	15.23	15.61	16.99	16.96	17.33	18.02	18.41	19.78
	8H	14.21	14.53	15.28	15.60	16.99	17.12	17.44	18.18	18.50	19.89
	12H	14.20	14.48	15.27	15.54	16.97	17.22	17.50	18.29	18.56	19.99
12H	4H	13.92	14.31	14.97	15.36	16.75	16.49	16.89	17.54	17.94	19.32
	6H	14.23	14.55	15.30	15.62	17.01	16.96	17.28	18.03	18.34	19.74
	8H	14.30	14.58	15.37	15.64	17.07	17.12	17.40	18.19	18.46	19.90