

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: P934414

Luminaire Tested: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

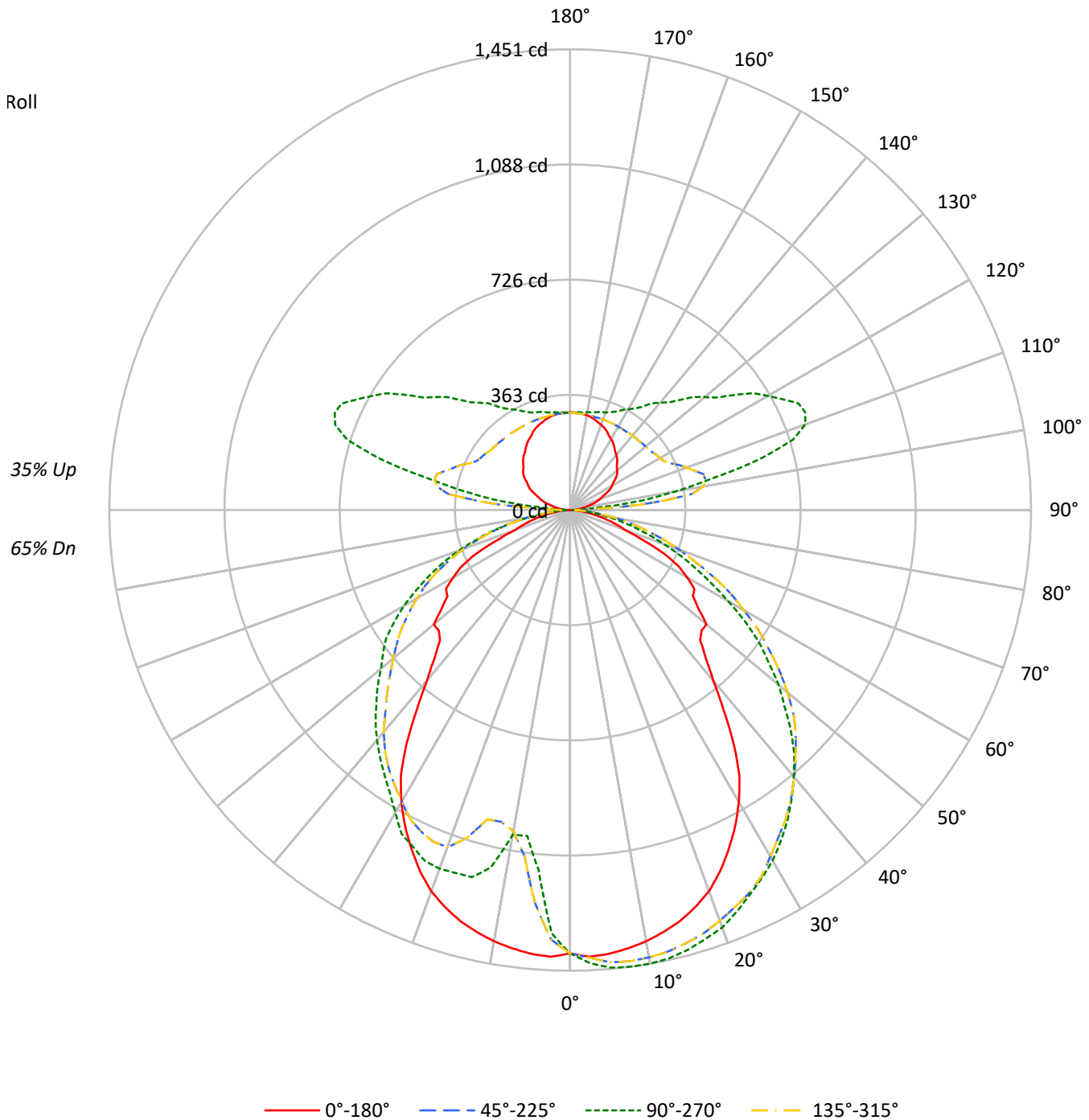
Test Method: LM-79-2019  
Report Number: P934414  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5613.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 45.2  
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-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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

	0°	90°	180°	270°
0°	12958	12958	12958	12958
5°	13042	13082	13042	10286
10°	12940	12886	12940	9213
15°	12784	12606	12784	10526
20°	12502	12276	12502	10549
25°	11941	11794	11941	10325
30°	11220	11393	11220	9835
35°	9987	10887	9987	9295
40°	8309	10290	8309	8888
45°	7409	9592	7409	8419
50°	7853	8760	7853	7949
55°	7368	7863	7368	7677
60°	7567	6677	7567	7031
65°	6829	5520	6829	6171
70°	4697	4400	4697	5173
75°	4073	3251	4073	3894
80°	3215	2150	3215	2341
85°	1747	1138	1747	967

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11377 cd/sqm



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CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	2.2
10°-20°	357.9	6.4
20°-30°	553.3	9.9
30°-40°	660.5	11.8
40°-50°	664.4	11.8
50°-60°	578.1	10.3
60°-70°	409.9	7.3
70°-80°	216.8	3.9
80°-90°	55.2	1.0
90°-100°	149.7	2.7
100°-110°	393.6	7.0
110°-120°	408.1	7.3
120°-130°	327.3	5.8
130°-140°	256.8	4.6
140°-150°	197.1	3.5
150°-160°	142.0	2.5
160°-170°	86.9	1.5
170°-180°	29.3	0.5
0°-30°	1037.3	18.5
0°-40°	1697.8	30.2
0°-60°	2940.3	52.4
0°-90°	3622.2	64.5
90°-120°	951.3	16.9
90°-150°	1732.6	30.9
90°-180°	1991.0	35.5
0°-180°	5613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1396	1396	1396	1396	1396	
5°	1403	1447	1403	1138	1403	133
15°	1340	1434	1340	1197	1340	377
25°	1180	1337	1180	1171	1180	542
35°	897	1193	897	1019	897	555
45°	579	983	579	863	579	464
55°	472	725	472	708	472	433
65°	328	437	328	489	328	313
75°	124	207	124	248	124	131
85°	21	53	21	45	21	29
90°	2	8	2	8	2	3
95°	20	90	20	90	20	22
105°	71	616	71	616	71	75
115°	126	794	126	794	126	124
125°	175	632	175	632	175	156
135°	209	490	209	490	209	162
145°	242	398	242	398	242	152
155°	274	343	274	343	274	126
165°	295	319	295	319	295	83
175°	307	309	307	309	307	29
180°	307	307	307	307	307	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1408.4	1408.4	1416.4	1419.0	1419.0	1415.0	1411.1	1415.0	1426.9	1430.9	1429.6
5°	1403.2	1413.7	1428.3	1430.9	1433.5	1432.2	1429.6	1432.2	1445.4	1448.1	1449.4
7.5°	1392.6	1412.4	1430.9	1434.9	1438.8	1434.9	1433.5	1436.2	1449.4	1452.0	1452.0
10°	1379.4	1407.1	1428.3	1430.9	1434.9	1430.9	1430.9	1436.2	1449.4	1452.0	1453.4
12.5°	1360.9	1399.2	1419.0	1421.7	1426.9	1425.6	1424.3	1429.6	1442.8	1445.4	1445.4
15°	1339.7	1384.7	1403.2	1405.8	1415.0	1412.4	1412.4	1417.7	1432.2	1436.2	1434.9
17.5°	1310.7	1366.2	1387.3	1391.3	1397.9	1396.5	1397.9	1403.2	1416.4	1419.0	1420.3
20°	1277.6	1341.1	1366.2	1370.1	1376.7	1376.7	1376.7	1383.3	1396.5	1401.8	1401.8
22.5°	1232.7	1314.6	1341.1	1343.7	1351.6	1351.6	1354.3	1363.5	1375.4	1376.7	1376.7
25°	1179.9	1285.6	1308.0	1316.0	1323.9	1327.8	1331.8	1337.1	1341.1	1339.7	1341.1
27.5°	1124.4	1248.6	1277.6	1282.9	1293.5	1297.5	1302.7	1304.1	1305.4	1309.3	1306.7
30°	1062.3	1197.0	1240.6	1245.9	1263.1	1265.7	1260.5	1263.1	1269.7	1272.4	1275.0
32.5°	992.2	1120.4	1202.3	1214.2	1230.1	1222.1	1220.8	1224.8	1235.4	1235.4	1238.0
35°	897.1	1061.0	1166.7	1177.2	1189.1	1179.9	1185.1	1186.5	1193.1	1197.0	1195.7
37.5°	792.7	1009.4	1129.7	1137.6	1146.8	1134.9	1142.9	1146.8	1152.1	1149.5	1149.5
40°	700.3	928.8	1086.1	1091.3	1099.3	1090.0	1097.9	1100.6	1103.2	1100.6	1099.3
42.5°	631.6	840.3	1039.8	1046.4	1041.1	1047.7	1050.4	1055.7	1051.7	1046.4	1046.4
45°	578.7	816.5	989.6	997.5	989.6	1000.2	1004.1	1004.1	992.2	989.6	988.3
47.5°	561.5	769.0	939.4	939.4	935.4	948.6	955.3	946.0	934.1	930.2	930.2
50°	560.2	716.1	870.7	865.4	883.9	899.8	893.2	883.9	874.7	860.1	860.1
52.5°	508.7	651.4	782.2	802.0	831.1	840.3	829.7	820.5	804.6	798.0	792.7
55°	471.7	584.0	701.6	741.2	771.6	783.5	763.7	754.4	730.6	726.7	724.0
57.5°	463.8	486.2	627.6	677.8	714.8	713.5	701.6	684.4	664.6	660.6	659.3
60°	425.4	351.4	548.3	607.8	646.1	642.1	631.6	615.7	597.2	594.6	591.9
62.5°	385.8	255.0	458.5	525.9	580.0	578.7	569.5	545.7	532.5	525.9	520.6
65°	327.7	214.0	326.3	437.3	515.3	517.9	498.1	480.9	466.4	458.5	457.1
67.5°	249.7	174.4	220.6	364.7	453.2	450.5	425.4	417.5	399.0	395.0	387.1
70°	185.0	116.3	153.3	296.0	392.4	385.8	366.0	356.7	339.6	330.3	325.0
72.5°	153.3	93.8	112.3	229.9	330.3	322.4	305.2	294.6	280.1	272.2	266.9
75°	124.2	99.1	85.9	170.4	268.2	262.9	247.1	236.5	224.6	214.0	215.4
77.5°	91.2	92.5	68.7	125.5	212.7	204.8	195.5	182.3	177.0	166.5	166.5
80°	68.7	72.7	51.5	85.9	153.3	153.3	145.3	136.1	126.8	121.6	121.6
82.5°	46.2	46.2	38.3	54.2	104.4	100.4	95.1	92.5	87.2	84.6	84.6
85°	21.1	26.4	23.8	33.0	56.8	59.5	59.5	56.8	55.5	52.8	54.2
87.5°	6.6	11.9	14.5	18.5	29.1	30.4	31.7	31.7	31.7	33.0	33.0
90°	2.1	3.7	5.4	5.8	9.1	13.5	15.7	13.9	10.4	7.8	7.8
92.5°	8.2	22.2	36.3	39.8	55.9	77.4	88.2	77.3	55.5	39.2	37.6
95°	19.8	45.4	71.1	77.5	137.6	217.7	257.8	230.0	174.5	132.9	128.2
97.5°	34.2	56.8	79.4	85.1	185.3	319.0	385.8	368.3	333.2	306.9	297.9
100°	45.3	65.8	86.4	91.5	202.7	351.0	425.2	426.5	429.1	431.0	420.3
102.5°	54.8	74.0	93.1	97.9	210.7	361.1	436.3	458.7	503.4	536.9	527.7
105°	70.9	87.1	103.3	107.4	216.6	362.3	435.1	485.2	585.4	660.6	655.7
107.5°	87.4	102.5	117.6	121.4	217.7	346.2	410.4	480.3	620.1	724.9	726.1
110°	98.5	112.1	125.8	129.2	216.1	331.9	389.8	467.9	624.2	741.4	746.5



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CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	109.4	122.4	135.4	138.7	216.1	319.4	371.0	451.0	610.9	730.9	738.8
115°	125.9	137.9	149.9	152.9	218.1	305.0	348.5	425.5	579.6	695.2	706.1
117.5°	142.2	153.1	164.0	166.7	222.2	296.1	333.1	402.6	541.6	645.9	658.0
120°	151.7	162.0	172.2	174.8	225.5	293.1	326.9	390.4	517.5	612.8	624.6
122.5°	161.0	171.4	181.7	184.3	230.2	291.5	322.1	379.3	493.8	579.6	591.2
125°	175.2	184.6	194.0	196.4	236.6	290.2	317.0	365.6	462.8	535.7	546.4
127.5°	186.7	196.3	205.8	208.2	243.0	289.5	312.7	354.4	437.8	500.4	509.4
130°	192.9	203.2	213.4	216.0	247.7	289.9	311.0	348.2	422.5	478.2	486.5
132.5°	199.3	209.6	219.8	222.4	251.5	290.2	309.6	342.8	409.3	459.2	466.7
135°	208.8	218.1	227.5	229.8	255.6	289.9	307.1	334.9	390.6	432.4	438.8
137.5°	218.5	227.7	237.0	239.3	261.8	291.7	306.7	330.2	377.3	412.6	417.9
140°	226.5	235.0	243.6	245.7	265.5	292.0	305.2	325.6	366.3	396.8	401.7
142.5°	232.7	240.6	248.4	250.4	268.7	293.0	305.2	323.1	358.8	385.6	389.8
145°	242.2	249.0	255.9	257.6	272.8	293.1	303.2	317.8	347.0	368.9	372.1
147.5°	251.7	258.4	265.0	266.7	278.9	295.1	303.2	314.7	337.7	354.9	357.6
150°	257.8	263.8	269.9	271.4	282.0	296.1	303.2	312.9	332.3	346.9	349.1
152.5°	264.2	268.8	273.4	274.5	284.1	296.8	303.2	311.5	328.1	340.5	342.1
155°	273.7	277.1	280.5	281.3	288.6	298.3	303.2	309.8	323.0	332.9	334.0
157.5°	280.7	284.0	287.3	288.1	293.1	299.8	303.2	308.3	318.6	326.3	327.1
160°	285.5	288.0	290.6	291.2	295.2	300.5	303.2	307.6	316.4	323.0	323.4
162.5°	290.2	292.1	294.0	294.5	297.4	301.3	303.2	306.9	314.3	319.9	320.3
165°	295.4	297.1	298.9	299.3	300.6	302.3	303.2	305.8	311.1	315.1	315.5
167.5°	300.1	300.9	301.7	301.9	303.0	304.5	305.2	307.0	310.5	313.1	313.3
170°	303.2	304.0	304.8	305.0	305.1	305.2	305.2	307.0	310.5	313.1	313.1
172.5°	304.8	305.0	305.2	305.2	305.2	305.2	305.2	306.6	309.3	311.4	311.2
175°	307.1	307.1	307.1	307.1	306.5	305.6	305.2	306.1	307.9	309.2	309.2
177.5°	307.1	307.1	307.1	307.1	306.6	306.0	305.7	306.4	307.8	308.8	308.6
180°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1432.2	1428.3	1432.2	1429.6	1430.9	1426.9	1415.0	1411.1	1415.0	1419.0	1419.0
5°	1449.4	1446.8	1449.4	1449.4	1448.1	1445.4	1432.2	1429.6	1432.2	1433.5	1430.9
7.5°	1454.7	1450.7	1454.7	1452.0	1452.0	1449.4	1436.2	1433.5	1434.9	1438.8	1434.9
10°	1454.7	1450.7	1454.7	1453.4	1452.0	1449.4	1436.2	1430.9	1430.9	1434.9	1430.9
12.5°	1448.1	1445.4	1448.1	1445.4	1445.4	1442.8	1429.6	1424.3	1425.6	1426.9	1421.7
15°	1437.5	1433.5	1437.5	1434.9	1436.2	1432.2	1417.7	1412.4	1412.4	1415.0	1405.8
17.5°	1421.7	1416.4	1421.7	1420.3	1419.0	1416.4	1403.2	1397.9	1396.5	1397.9	1391.3
20°	1403.2	1399.2	1403.2	1401.8	1401.8	1396.5	1383.3	1376.7	1376.7	1376.7	1370.1
22.5°	1374.1	1370.1	1374.1	1376.7	1376.7	1375.4	1363.5	1354.3	1351.6	1351.6	1343.7
25°	1341.1	1337.1	1341.1	1341.1	1339.7	1341.1	1337.1	1331.8	1327.8	1323.9	1316.0
27.5°	1309.3	1306.7	1309.3	1306.7	1309.3	1305.4	1304.1	1302.7	1297.5	1293.5	1282.9
30°	1277.6	1275.0	1277.6	1275.0	1272.4	1269.7	1263.1	1260.5	1265.7	1263.1	1245.9
32.5°	1238.0	1235.4	1238.0	1238.0	1235.4	1235.4	1224.8	1220.8	1222.1	1230.1	1214.2
35°	1197.0	1193.1	1197.0	1195.7	1197.0	1193.1	1186.5	1185.1	1179.9	1189.1	1177.2
37.5°	1149.5	1145.5	1149.5	1149.5	1149.5	1152.1	1146.8	1142.9	1134.9	1146.8	1137.6
40°	1100.6	1095.3	1100.6	1099.3	1100.6	1103.2	1100.6	1097.9	1090.0	1099.3	1091.3
42.5°	1045.1	1043.8	1045.1	1046.4	1046.4	1051.7	1055.7	1050.4	1047.7	1041.1	1046.4
45°	985.6	983.0	985.6	988.3	989.6	992.2	1004.1	1004.1	1000.2	989.6	997.5
47.5°	922.2	915.6	922.2	930.2	930.2	934.1	946.0	955.3	948.6	935.4	939.4
50°	854.8	856.2	854.8	860.1	860.1	874.7	883.9	893.2	899.8	883.9	865.4
52.5°	788.8	787.5	788.8	792.7	798.0	804.6	820.5	829.7	840.3	831.1	802.0
55°	722.7	725.4	722.7	724.0	726.7	730.6	754.4	763.7	783.5	771.6	741.2
57.5°	656.7	652.7	656.7	659.3	660.6	664.6	684.4	701.6	713.5	714.8	677.8
60°	580.0	574.7	580.0	591.9	594.6	597.2	615.7	631.6	642.1	646.1	607.8
62.5°	512.6	503.4	512.6	520.6	525.9	532.5	545.7	569.5	578.7	580.0	525.9
65°	441.3	437.3	441.3	457.1	458.5	466.4	480.9	498.1	517.9	515.3	437.3
67.5°	376.6	376.6	376.6	387.1	395.0	399.0	417.5	425.4	450.5	453.2	364.7
70°	317.1	315.8	317.1	325.0	330.3	339.6	356.7	366.0	385.8	392.4	296.0
72.5°	260.3	259.0	260.3	266.9	272.2	280.1	294.6	305.2	322.4	330.3	229.9
75°	210.1	207.4	210.1	215.4	214.0	224.6	236.5	247.1	262.9	268.2	170.4
77.5°	161.2	161.2	161.2	166.5	166.5	177.0	182.3	195.5	204.8	212.7	125.5
80°	120.2	118.9	120.2	121.6	121.6	126.8	136.1	145.3	153.3	153.3	85.9
82.5°	84.6	81.9	84.6	84.6	84.6	87.2	92.5	95.1	100.4	104.4	54.2
85°	52.8	52.8	52.8	54.2	52.8	55.5	56.8	59.5	59.5	56.8	33.0
87.5°	34.4	33.0	34.4	33.0	33.0	31.7	31.7	31.7	30.4	29.1	18.5
90°	7.8	7.8	7.8	7.8	7.8	10.4	13.9	15.7	13.5	9.1	5.8
92.5°	31.4	25.1	31.4	37.6	39.2	55.5	77.3	88.2	77.4	55.9	39.8
95°	109.3	90.5	109.3	128.2	132.9	174.5	230.0	257.8	217.7	137.6	77.5
97.5°	262.0	226.1	262.0	297.9	306.9	333.2	368.3	385.8	319.0	185.3	85.1
100°	377.5	334.7	377.5	420.3	431.0	429.1	426.5	425.2	351.0	202.7	91.5
102.5°	491.1	454.5	491.1	527.7	536.9	503.4	458.7	436.3	361.1	210.7	97.9
105°	636.0	616.3	636.0	655.7	660.6	585.4	485.2	435.1	362.3	216.6	107.4
107.5°	730.8	735.6	730.8	726.1	724.9	620.1	480.3	410.4	346.2	217.7	121.4
110°	767.0	787.5	767.0	746.5	741.4	624.2	467.9	389.8	331.9	216.1	129.2





TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	770.3	801.8	770.3	738.8	730.9	610.9	451.0	371.0	319.4	216.1	138.7
115°	749.8	793.5	749.8	706.1	695.2	579.6	425.5	348.5	305.0	218.1	152.9
117.5°	706.5	755.0	706.5	658.0	645.9	541.6	402.6	333.1	296.1	222.2	166.7
120°	671.6	718.7	671.6	624.6	612.8	517.5	390.4	326.9	293.1	225.5	174.8
122.5°	637.7	684.1	637.7	591.2	579.6	493.8	379.3	322.1	291.5	230.2	184.3
125°	589.1	631.9	589.1	546.4	535.7	462.8	365.6	317.0	290.2	236.6	196.4
127.5°	545.5	581.6	545.5	509.4	500.4	437.8	354.4	312.7	289.5	243.0	208.2
130°	519.9	553.2	519.9	486.5	478.2	422.5	348.2	311.0	289.9	247.7	216.0
132.5°	496.5	526.4	496.5	466.7	459.2	409.3	342.8	309.6	290.2	251.5	222.4
135°	464.6	490.3	464.6	438.8	432.4	390.6	334.9	307.1	289.9	255.6	229.8
137.5°	438.9	460.0	438.9	417.9	412.6	377.3	330.2	306.7	291.7	261.8	239.3
140°	421.4	441.1	421.4	401.7	396.8	366.3	325.6	305.2	292.0	265.5	245.7
142.5°	406.8	423.8	406.8	389.8	385.6	358.8	323.1	305.2	293.0	268.7	250.4
145°	385.0	397.8	385.0	372.1	368.9	347.0	317.8	303.2	293.1	272.8	257.6
147.5°	368.2	378.8	368.2	357.6	354.9	337.7	314.7	303.2	295.1	278.9	266.7
150°	357.7	366.3	357.7	349.1	346.9	332.3	312.9	303.2	296.1	282.0	271.4
152.5°	348.6	355.1	348.6	342.1	340.5	328.1	311.5	303.2	296.8	284.1	274.5
155°	338.3	342.6	338.3	334.0	332.9	323.0	309.8	303.2	298.3	288.6	281.3
157.5°	330.1	333.1	330.1	327.1	326.3	318.6	308.3	303.2	299.8	293.1	288.1
160°	325.2	326.9	325.2	323.4	323.0	316.4	307.6	303.2	300.5	295.2	291.2
162.5°	322.0	323.6	322.0	320.3	319.9	314.3	306.9	303.2	301.3	297.4	294.5
165°	317.3	319.1	317.3	315.5	315.1	311.1	305.8	303.2	302.3	300.6	299.3
167.5°	314.0	314.7	314.0	313.3	313.1	310.5	307.0	305.2	304.5	303.0	301.9
170°	313.1	313.1	313.1	313.1	313.1	310.5	307.0	305.2	305.2	305.1	305.0
172.5°	310.6	310.0	310.6	311.2	311.4	309.3	306.6	305.2	305.2	305.2	305.2
175°	309.2	309.2	309.2	309.2	309.2	307.9	306.1	305.2	305.6	306.5	307.1
177.5°	307.9	307.1	307.9	308.6	308.8	307.8	306.4	305.7	306.0	306.6	307.1
180°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1



TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1416.4	1408.4	1408.4	1395.2	1389.9	1386.0	1379.4	1359.6	1354.3	1349.0	1356.9
5°	1428.3	1413.7	1403.2	1379.4	1359.6	1351.6	1326.5	1279.0	1247.2	1223.5	1210.3
7.5°	1430.9	1412.4	1392.6	1355.6	1308.0	1286.9	1210.3	1123.1	1099.3	1078.1	1064.9
10°	1428.3	1407.1	1379.4	1323.9	1211.6	1174.6	1097.9	1041.1	1026.6	1022.6	1026.6
12.5°	1419.0	1399.2	1360.9	1268.4	1111.2	1086.1	1041.1	1008.1	1005.5	1012.1	1047.7
15°	1403.2	1384.7	1339.7	1194.4	1055.7	1037.2	1005.5	993.6	1008.1	1054.3	1161.4
17.5°	1387.3	1366.2	1310.7	1121.7	1013.4	1000.2	977.7	1001.5	1083.4	1145.5	1181.2
20°	1366.2	1341.1	1277.6	1068.9	983.0	971.1	960.5	1067.6	1129.7	1152.1	1171.9
22.5°	1341.1	1314.6	1232.7	1031.9	951.3	942.0	948.6	1104.6	1129.7	1145.5	1162.7
25°	1308.0	1285.6	1179.9	1002.8	926.2	915.6	940.7	1100.6	1115.1	1119.1	1153.4
27.5°	1277.6	1248.6	1124.4	976.4	895.8	891.8	947.3	1083.4	1094.0	1097.9	1134.9
30°	1240.6	1197.0	1062.3	948.6	864.1	862.8	948.6	1062.3	1059.6	1070.2	1107.2
32.5°	1202.3	1120.4	992.2	914.3	833.7	832.4	939.4	1030.6	1027.9	1042.5	1070.2
35°	1166.7	1061.0	897.1	874.7	795.4	796.7	916.9	993.6	994.9	1008.1	1025.3
37.5°	1129.7	1009.4	792.7	831.1	758.4	758.4	886.5	959.2	956.6	960.5	984.3
40°	1086.1	928.8	700.3	774.2	724.0	720.1	849.6	922.2	913.0	911.7	944.7
42.5°	1039.8	840.3	631.6	698.9	684.4	679.1	804.6	877.3	860.1	864.1	906.4
45°	989.6	816.5	578.7	590.6	643.4	639.5	755.7	825.8	813.9	824.5	868.1
47.5°	939.4	769.0	561.5	490.2	599.8	598.5	701.6	775.6	769.0	779.5	825.8
50°	870.7	716.1	560.2	420.2	551.0	556.2	636.8	726.7	726.7	735.9	784.8
52.5°	782.2	651.4	508.7	380.5	494.1	510.0	580.0	684.4	687.0	696.3	739.9
55°	701.6	584.0	471.7	350.1	426.8	461.1	524.5	640.8	646.1	655.3	695.0
57.5°	627.6	486.2	463.8	314.5	364.7	397.7	475.6	598.5	601.2	609.1	647.4
60°	548.3	351.4	425.4	276.1	310.5	335.6	430.7	548.3	557.6	562.8	595.9
62.5°	458.5	255.0	385.8	249.7	284.1	289.4	393.7	500.7	512.6	516.6	536.4
65°	326.3	214.0	327.7	227.3	256.3	257.6	354.1	451.9	462.4	469.0	483.6
67.5°	220.6	174.4	249.7	206.1	235.2	236.5	315.8	395.0	409.6	414.9	424.1
70°	153.3	116.3	185.0	183.7	211.4	214.0	274.8	343.5	356.7	360.7	366.0
72.5°	112.3	93.8	153.3	165.2	186.3	188.9	232.5	285.4	298.6	302.6	305.2
75°	85.9	99.1	124.2	144.0	158.5	159.9	190.3	232.5	241.8	244.4	245.7
77.5°	68.7	92.5	91.2	116.3	129.5	126.8	149.3	179.7	187.6	187.6	187.6
80°	51.5	72.7	68.7	83.2	95.1	92.5	107.0	128.2	130.8	133.4	132.1
82.5°	38.3	46.2	46.2	52.8	63.4	60.8	71.3	83.2	83.2	83.2	85.9
85°	23.8	26.4	21.1	27.7	35.7	34.4	39.6	44.9	46.2	46.2	43.6
87.5°	14.5	11.9	6.6	10.6	15.9	15.9	18.5	19.8	18.5	18.5	18.5
90°	5.4	3.7	2.1	3.7	5.4	5.8	9.1	13.5	15.7	13.9	10.4
92.5°	36.3	22.2	8.2	22.2	36.3	39.8	55.9	77.4	88.2	77.3	55.5
95°	71.1	45.4	19.8	45.4	71.1	77.5	137.6	217.7	257.8	230.0	174.5
97.5°	79.4	56.8	34.2	56.8	79.4	85.1	185.3	319.0	385.8	368.3	333.2
100°	86.4	65.8	45.3	65.8	86.4	91.5	202.7	351.0	425.2	426.5	429.1
102.5°	93.1	74.0	54.8	74.0	93.1	97.9	210.7	361.1	436.3	458.7	503.4
105°	103.3	87.1	70.9	87.1	103.3	107.4	216.6	362.3	435.1	485.2	585.4
107.5°	117.6	102.5	87.4	102.5	117.6	121.4	217.7	346.2	410.4	480.3	620.1
110°	125.8	112.1	98.5	112.1	125.8	129.2	216.1	331.9	389.8	467.9	624.2



TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	135.4	122.4	109.4	122.4	135.4	138.7	216.1	319.4	371.0	451.0	610.9
115°	149.9	137.9	125.9	137.9	149.9	152.9	218.1	305.0	348.5	425.5	579.6
117.5°	164.0	153.1	142.2	153.1	164.0	166.7	222.2	296.1	333.1	402.6	541.6
120°	172.2	162.0	151.7	162.0	172.2	174.8	225.5	293.1	326.9	390.4	517.5
122.5°	181.7	171.4	161.0	171.4	181.7	184.3	230.2	291.5	322.1	379.3	493.8
125°	194.0	184.6	175.2	184.6	194.0	196.4	236.6	290.2	317.0	365.6	462.8
127.5°	205.8	196.3	186.7	196.3	205.8	208.2	243.0	289.5	312.7	354.4	437.8
130°	213.4	203.2	192.9	203.2	213.4	216.0	247.7	289.9	311.0	348.2	422.5
132.5°	219.8	209.6	199.3	209.6	219.8	222.4	251.5	290.2	309.6	342.8	409.3
135°	227.5	218.1	208.8	218.1	227.5	229.8	255.6	289.9	307.1	334.9	390.6
137.5°	237.0	227.7	218.5	227.7	237.0	239.3	261.8	291.7	306.7	330.2	377.3
140°	243.6	235.0	226.5	235.0	243.6	245.7	265.5	292.0	305.2	325.6	366.3
142.5°	248.4	240.6	232.7	240.6	248.4	250.4	268.7	293.0	305.2	323.1	358.8
145°	255.9	249.0	242.2	249.0	255.9	257.6	272.8	293.1	303.2	317.8	347.0
147.5°	265.0	258.4	251.7	258.4	265.0	266.7	278.9	295.1	303.2	314.7	337.7
150°	269.9	263.8	257.8	263.8	269.9	271.4	282.0	296.1	303.2	312.9	332.3
152.5°	273.4	268.8	264.2	268.8	273.4	274.5	284.1	296.8	303.2	311.5	328.1
155°	280.5	277.1	273.7	277.1	280.5	281.3	288.6	298.3	303.2	309.8	323.0
157.5°	287.3	284.0	280.7	284.0	287.3	288.1	293.1	299.8	303.2	308.3	318.6
160°	290.6	288.0	285.5	288.0	290.6	291.2	295.2	300.5	303.2	307.6	316.4
162.5°	294.0	292.1	290.2	292.1	294.0	294.5	297.4	301.3	303.2	306.9	314.3
165°	298.9	297.1	295.4	297.1	298.9	299.3	300.6	302.3	303.2	305.8	311.1
167.5°	301.7	300.9	300.1	300.9	301.7	301.9	303.0	304.5	305.2	307.0	310.5
170°	304.8	304.0	303.2	304.0	304.8	305.0	305.1	305.2	305.2	307.0	310.5
172.5°	305.2	305.0	304.8	305.0	305.2	305.2	305.2	305.2	305.2	306.6	309.3
175°	307.1	307.1	307.1	307.1	307.1	307.1	306.5	305.6	305.2	306.1	307.9
177.5°	307.1	307.1	307.1	307.1	307.1	307.1	306.6	306.0	305.7	306.4	307.8
180°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1



TEST NUMBER: P934414  
 CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1347.7	1343.7	1349.0	1334.4	1349.0	1343.7	1347.7	1356.9	1349.0	1354.3	1359.6
5°	1182.5	1175.9	1154.8	1137.6	1154.8	1175.9	1182.5	1210.3	1223.5	1247.2	1279.0
7.5°	1057.0	1051.7	1046.4	1035.8	1046.4	1051.7	1057.0	1064.9	1078.1	1099.3	1123.1
10°	1029.2	1030.6	1038.5	1037.2	1038.5	1030.6	1029.2	1026.6	1022.6	1026.6	1041.1
12.5°	1100.6	1112.5	1156.1	1153.4	1156.1	1112.5	1100.6	1047.7	1012.1	1005.5	1008.1
15°	1182.5	1186.5	1195.7	1197.0	1195.7	1186.5	1182.5	1161.4	1054.3	1008.1	993.6
17.5°	1190.4	1191.8	1198.4	1198.4	1198.4	1191.8	1190.4	1181.2	1145.5	1083.4	1001.5
20°	1183.8	1186.5	1199.7	1202.3	1199.7	1186.5	1183.8	1171.9	1152.1	1129.7	1067.6
22.5°	1181.2	1186.5	1197.0	1195.7	1197.0	1186.5	1181.2	1162.7	1145.5	1129.7	1104.6
25°	1168.0	1168.0	1169.3	1170.6	1169.3	1168.0	1168.0	1153.4	1119.1	1115.1	1100.6
27.5°	1140.2	1142.9	1150.8	1149.5	1150.8	1142.9	1140.2	1134.9	1097.9	1094.0	1083.4
30°	1115.1	1112.5	1105.9	1100.6	1105.9	1112.5	1115.1	1107.2	1070.2	1059.6	1062.3
32.5°	1072.8	1066.2	1059.6	1055.7	1059.6	1066.2	1072.8	1070.2	1042.5	1027.9	1030.6
35°	1022.6	1024.0	1022.6	1018.7	1022.6	1024.0	1022.6	1025.3	1008.1	994.9	993.6
37.5°	987.0	989.6	988.3	983.0	988.3	989.6	987.0	984.3	960.5	956.6	959.2
40°	950.0	951.3	950.0	946.0	950.0	951.3	950.0	944.7	911.7	913.0	922.2
42.5°	914.3	913.0	909.0	906.4	909.0	913.0	914.3	906.4	864.1	860.1	877.3
45°	873.3	874.7	866.7	862.8	866.7	874.7	873.3	868.1	824.5	813.9	825.8
47.5°	832.4	832.4	825.8	821.8	825.8	832.4	832.4	825.8	779.5	769.0	775.6
50°	788.8	787.5	778.2	776.9	778.2	787.5	788.8	784.8	735.9	726.7	726.7
52.5°	738.6	738.6	739.9	742.5	739.9	738.6	738.6	739.9	696.3	687.0	684.4
55°	695.0	696.3	705.5	708.2	705.5	696.3	695.0	695.0	655.3	646.1	640.8
57.5°	650.0	650.0	656.7	656.7	656.7	650.0	650.0	647.4	609.1	601.2	598.5
60°	598.5	601.2	606.4	605.1	606.4	601.2	598.5	595.9	562.8	557.6	548.3
62.5°	544.3	547.0	548.3	545.7	548.3	547.0	544.3	536.4	516.6	512.6	500.7
65°	487.5	490.2	491.5	488.9	491.5	490.2	487.5	483.6	469.0	462.4	451.9
67.5°	429.4	428.1	426.8	432.0	426.8	428.1	429.4	424.1	414.9	409.6	395.0
70°	369.9	369.9	368.6	371.3	368.6	369.9	369.9	366.0	360.7	356.7	343.5
72.5°	306.5	305.2	310.5	306.5	310.5	305.2	306.5	305.2	302.6	298.6	285.4
75°	244.4	247.1	244.4	248.4	244.4	247.1	244.4	245.7	244.4	241.8	232.5
77.5°	186.3	188.9	186.3	186.3	186.3	188.9	186.3	187.6	187.6	187.6	179.7
80°	132.1	130.8	130.8	129.5	130.8	130.8	132.1	132.1	133.4	130.8	128.2
82.5°	84.6	83.2	83.2	85.9	83.2	83.2	84.6	85.9	83.2	83.2	83.2
85°	46.2	47.6	44.9	44.9	44.9	47.6	46.2	43.6	46.2	46.2	44.9
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.5	18.5	18.5	19.8
90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	13.9	15.7	13.5
92.5°	39.2	37.6	31.4	25.1	31.4	37.6	39.2	55.5	77.3	88.2	77.4
95°	132.9	128.2	109.3	90.5	109.3	128.2	132.9	174.5	230.0	257.8	217.7
97.5°	306.9	297.9	262.0	226.1	262.0	297.9	306.9	333.2	368.3	385.8	319.0
100°	431.0	420.3	377.5	334.7	377.5	420.3	431.0	429.1	426.5	425.2	351.0
102.5°	536.9	527.7	491.1	454.5	491.1	527.7	536.9	503.4	458.7	436.3	361.1
105°	660.6	655.7	636.0	616.3	636.0	655.7	660.6	585.4	485.2	435.1	362.3
107.5°	724.9	726.1	730.8	735.6	730.8	726.1	724.9	620.1	480.3	410.4	346.2
110°	741.4	746.5	767.0	787.5	767.0	746.5	741.4	624.2	467.9	389.8	331.9



TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	730.9	738.8	770.3	801.8	770.3	738.8	730.9	610.9	451.0	371.0	319.4
115°	695.2	706.1	749.8	793.5	749.8	706.1	695.2	579.6	425.5	348.5	305.0
117.5°	645.9	658.0	706.5	755.0	706.5	658.0	645.9	541.6	402.6	333.1	296.1
120°	612.8	624.6	671.6	718.7	671.6	624.6	612.8	517.5	390.4	326.9	293.1
122.5°	579.6	591.2	637.7	684.1	637.7	591.2	579.6	493.8	379.3	322.1	291.5
125°	535.7	546.4	589.1	631.9	589.1	546.4	535.7	462.8	365.6	317.0	290.2
127.5°	500.4	509.4	545.5	581.6	545.5	509.4	500.4	437.8	354.4	312.7	289.5
130°	478.2	486.5	519.9	553.2	519.9	486.5	478.2	422.5	348.2	311.0	289.9
132.5°	459.2	466.7	496.5	526.4	496.5	466.7	459.2	409.3	342.8	309.6	290.2
135°	432.4	438.8	464.6	490.3	464.6	438.8	432.4	390.6	334.9	307.1	289.9
137.5°	412.6	417.9	438.9	460.0	438.9	417.9	412.6	377.3	330.2	306.7	291.7
140°	396.8	401.7	421.4	441.1	421.4	401.7	396.8	366.3	325.6	305.2	292.0
142.5°	385.6	389.8	406.8	423.8	406.8	389.8	385.6	358.8	323.1	305.2	293.0
145°	368.9	372.1	385.0	397.8	385.0	372.1	368.9	347.0	317.8	303.2	293.1
147.5°	354.9	357.6	368.2	378.8	368.2	357.6	354.9	337.7	314.7	303.2	295.1
150°	346.9	349.1	357.7	366.3	357.7	349.1	346.9	332.3	312.9	303.2	296.1
152.5°	340.5	342.1	348.6	355.1	348.6	342.1	340.5	328.1	311.5	303.2	296.8
155°	332.9	334.0	338.3	342.6	338.3	334.0	332.9	323.0	309.8	303.2	298.3
157.5°	326.3	327.1	330.1	333.1	330.1	327.1	326.3	318.6	308.3	303.2	299.8
160°	323.0	323.4	325.2	326.9	325.2	323.4	323.0	316.4	307.6	303.2	300.5
162.5°	319.9	320.3	322.0	323.6	322.0	320.3	319.9	314.3	306.9	303.2	301.3
165°	315.1	315.5	317.3	319.1	317.3	315.5	315.1	311.1	305.8	303.2	302.3
167.5°	313.1	313.3	314.0	314.7	314.0	313.3	313.1	310.5	307.0	305.2	304.5
170°	313.1	313.1	313.1	313.1	313.1	313.1	313.1	310.5	307.0	305.2	305.2
172.5°	311.4	311.2	310.6	310.0	310.6	311.2	311.4	309.3	306.6	305.2	305.2
175°	309.2	309.2	309.2	309.2	309.2	309.2	309.2	307.9	306.1	305.2	305.6
177.5°	308.8	308.6	307.9	307.1	307.9	308.6	308.8	307.8	306.4	305.7	306.0
180°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1



TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1379.4	1386.0	1389.9	1395.2	1408.4
5°	1326.5	1351.6	1359.6	1379.4	1403.2
7.5°	1210.3	1286.9	1308.0	1355.6	1392.6
10°	1097.9	1174.6	1211.6	1323.9	1379.4
12.5°	1041.1	1086.1	1111.2	1268.4	1360.9
15°	1005.5	1037.2	1055.7	1194.4	1339.7
17.5°	977.7	1000.2	1013.4	1121.7	1310.7
20°	960.5	971.1	983.0	1068.9	1277.6
22.5°	948.6	942.0	951.3	1031.9	1232.7
25°	940.7	915.6	926.2	1002.8	1179.9
27.5°	947.3	891.8	895.8	976.4	1124.4
30°	948.6	862.8	864.1	948.6	1062.3
32.5°	939.4	832.4	833.7	914.3	992.2
35°	916.9	796.7	795.4	874.7	897.1
37.5°	886.5	758.4	758.4	831.1	792.7
40°	849.6	720.1	724.0	774.2	700.3
42.5°	804.6	679.1	684.4	698.9	631.6
45°	755.7	639.5	643.4	590.6	578.7
47.5°	701.6	598.5	599.8	490.2	561.5
50°	636.8	556.2	551.0	420.2	560.2
52.5°	580.0	510.0	494.1	380.5	508.7
55°	524.5	461.1	426.8	350.1	471.7
57.5°	475.6	397.7	364.7	314.5	463.8
60°	430.7	335.6	310.5	276.1	425.4
62.5°	393.7	289.4	284.1	249.7	385.8
65°	354.1	257.6	256.3	227.3	327.7
67.5°	315.8	236.5	235.2	206.1	249.7
70°	274.8	214.0	211.4	183.7	185.0
72.5°	232.5	188.9	186.3	165.2	153.3
75°	190.3	159.9	158.5	144.0	124.2
77.5°	149.3	126.8	129.5	116.3	91.2
80°	107.0	92.5	95.1	83.2	68.7
82.5°	71.3	60.8	63.4	52.8	46.2
85°	39.6	34.4	35.7	27.7	21.1
87.5°	18.5	15.9	15.9	10.6	6.6
90°	9.1	5.8	5.4	3.7	2.1
92.5°	55.9	39.8	36.3	22.2	8.2
95°	137.6	77.5	71.1	45.4	19.8
97.5°	185.3	85.1	79.4	56.8	34.2
100°	202.7	91.5	86.4	65.8	45.3
102.5°	210.7	97.9	93.1	74.0	54.8
105°	216.6	107.4	103.3	87.1	70.9
107.5°	217.7	121.4	117.6	102.5	87.4
110°	216.1	129.2	125.8	112.1	98.5



TEST NUMBER: P934414

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	216.1	138.7	135.4	122.4	109.4
115°	218.1	152.9	149.9	137.9	125.9
117.5°	222.2	166.7	164.0	153.1	142.2
120°	225.5	174.8	172.2	162.0	151.7
122.5°	230.2	184.3	181.7	171.4	161.0
125°	236.6	196.4	194.0	184.6	175.2
127.5°	243.0	208.2	205.8	196.3	186.7
130°	247.7	216.0	213.4	203.2	192.9
132.5°	251.5	222.4	219.8	209.6	199.3
135°	255.6	229.8	227.5	218.1	208.8
137.5°	261.8	239.3	237.0	227.7	218.5
140°	265.5	245.7	243.6	235.0	226.5
142.5°	268.7	250.4	248.4	240.6	232.7
145°	272.8	257.6	255.9	249.0	242.2
147.5°	278.9	266.7	265.0	258.4	251.7
150°	282.0	271.4	269.9	263.8	257.8
152.5°	284.1	274.5	273.4	268.8	264.2
155°	288.6	281.3	280.5	277.1	273.7
157.5°	293.1	288.1	287.3	284.0	280.7
160°	295.2	291.2	290.6	288.0	285.5
162.5°	297.4	294.5	294.0	292.1	290.2
165°	300.6	299.3	298.9	297.1	295.4
167.5°	303.0	301.9	301.7	300.9	300.1
170°	305.1	305.0	304.8	304.0	303.2
172.5°	305.2	305.2	305.2	305.0	304.8
175°	306.5	307.1	307.1	307.1	307.1
177.5°	306.6	307.1	307.1	307.1	307.1
180°	307.1	307.1	307.1	307.1	307.1



TEST NUMBER: P934414  
 CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.94	15.95	15.76	16.79	17.84	17.73	18.74	18.56	19.59	20.63
	3H	15.43	16.33	16.26	17.18	18.26	19.08	19.99	19.92	20.84	21.92
	4H	15.62	16.48	16.47	17.34	18.43	19.53	20.38	20.38	21.24	22.33
	6H	15.75	16.54	16.61	17.41	18.51	19.81	20.60	20.67	21.47	22.57
	8H	15.76	16.51	16.63	17.39	18.49	19.89	20.64	20.76	21.52	22.62
	12H	15.73	16.45	16.61	17.33	18.45	19.92	20.64	20.80	21.52	22.64
4H	2H	15.98	16.83	16.84	17.70	18.78	18.16	19.02	19.02	19.88	20.96
	3H	17.02	17.73	17.89	18.63	19.73	19.67	20.39	20.54	21.28	22.38
	4H	17.30	17.95	18.18	18.84	19.97	20.20	20.85	21.08	21.74	22.87
	6H	17.44	18.00	18.33	18.91	20.04	20.57	21.13	21.46	22.04	23.17
	8H	17.45	17.97	18.34	18.88	20.02	20.67	21.20	21.57	22.10	23.25
	12H	17.42	17.89	18.34	18.82	19.97	20.73	21.20	21.65	22.13	23.28
8H	4H	17.76	18.29	18.66	19.20	20.34	20.34	20.86	21.24	21.77	22.91
	6H	18.03	18.46	18.96	19.41	20.56	20.77	21.21	21.70	22.16	23.30
	8H	18.07	18.46	19.01	19.40	20.56	20.92	21.30	21.86	22.25	23.41
	12H	18.07	18.40	19.00	19.34	20.55	21.02	21.36	21.96	22.29	23.50
12H	4H	17.78	18.25	18.69	19.17	20.32	20.31	20.78	21.23	21.71	22.86
	6H	18.09	18.48	19.03	19.42	20.58	20.77	21.16	21.71	22.10	23.26
	8H	18.16	18.50	19.10	19.44	20.65	20.93	21.27	21.87	22.21	23.42