

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: P935218

Luminaire Tested: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

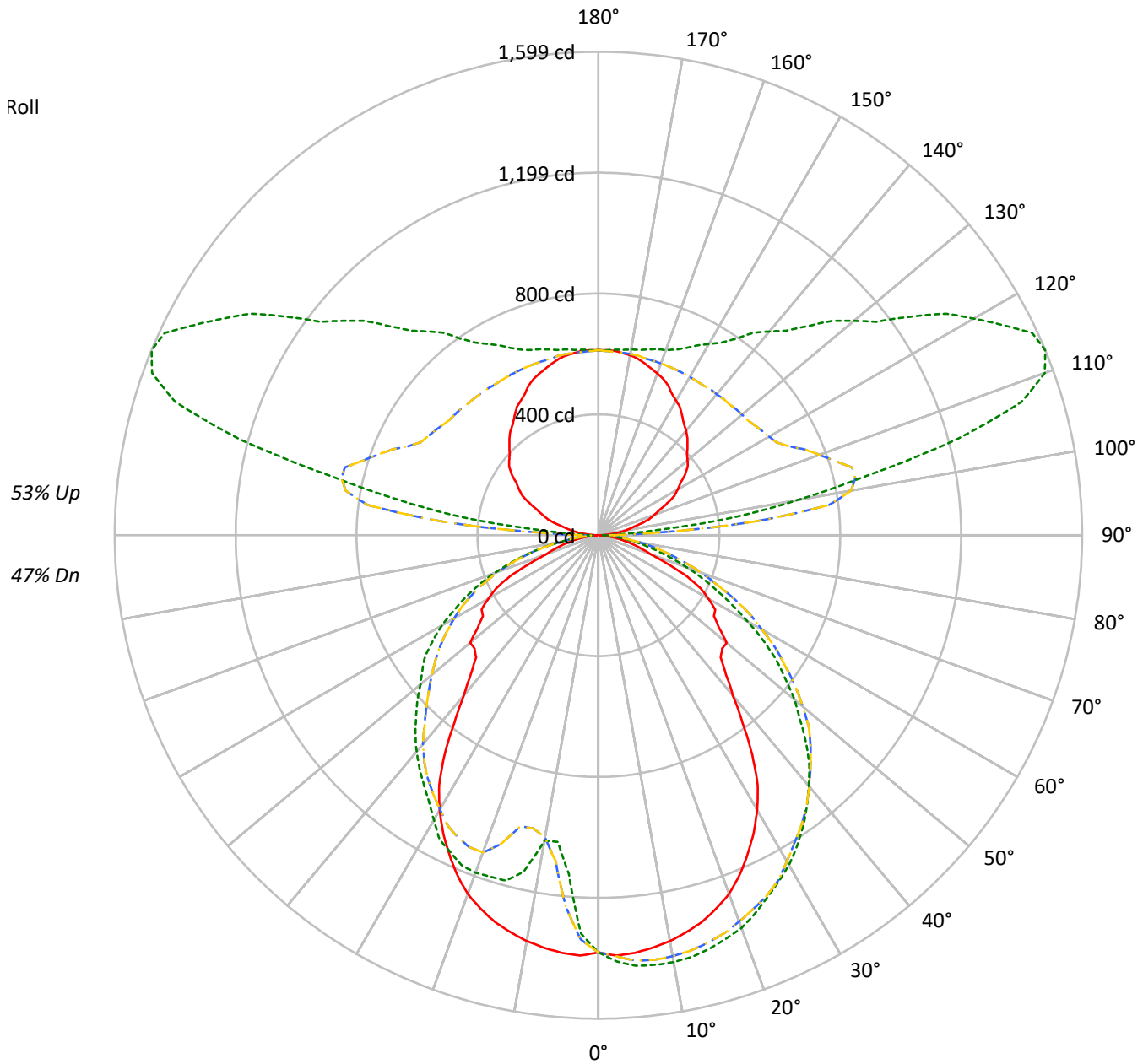
Test Method: LM-79-2019  
Report Number: P935218  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7549.3 lumens  
Efficiency: N/A  
Efficacy: 130.2 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: General Diffuse  
  
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

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

	0°	90°	180°	270°
0°	12803	12803	12803	12803
5°	12886	12924	12886	10162
10°	12784	12731	12784	9103
15°	12631	12455	12631	10400
20°	12353	12129	12353	10422
25°	11797	11652	11797	10201
30°	11086	11256	11086	9717
35°	9867	10756	9867	9184
40°	8209	10167	8209	8780
45°	7321	9477	7321	8318
50°	7759	8655	7759	7854
55°	7279	7769	7279	7585
60°	7476	6597	7476	6946
65°	6748	5454	6748	6097
70°	4641	4347	4641	5110
75°	4024	3212	4024	3847
80°	3178	2124	3178	2312
85°	1722	1125	1722	957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11240 cd/sqm



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CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	1.6
10°-20°	353.6	4.7
20°-30°	546.7	7.2
30°-40°	652.6	8.6
40°-50°	656.4	8.7
50°-60°	571.1	7.6
60°-70°	405.0	5.4
70°-80°	214.2	2.8
80°-90°	55.7	0.7
90°-100°	298.5	4.0
100°-110°	784.7	10.4
110°-120°	813.7	10.8
120°-130°	652.6	8.6
130°-140°	512.1	6.8
140°-150°	393.1	5.2
150°-160°	283.1	3.7
160°-170°	173.2	2.3
170°-180°	58.5	0.8
0°-30°	1024.8	13.6
0°-40°	1677.4	22.2
0°-60°	2905.0	38.5
0°-90°	3579.9	47.4
90°-120°	1896.8	25.1
90°-150°	3454.6	45.8
90°-180°	3969.0	52.6
0°-180°	7549.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1386	1429	1386	1124	1386	132
15°	1324	1416	1324	1183	1324	372
25°	1166	1321	1166	1157	1166	535
35°	886	1179	886	1006	886	548
45°	572	971	572	852	572	458
55°	466	717	466	700	466	428
65°	324	432	324	483	324	309
75°	123	205	123	245	123	129
85°	21	52	21	44	21	28
90°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1229	141	1229	141	150
115°	251	1582	251	1582	251	248
125°	349	1260	349	1260	349	310
135°	416	978	416	978	416	322
145°	483	793	483	793	483	303
155°	546	683	546	683	546	251
165°	589	636	589	636	589	166
175°	612	616	612	616	612	58
180°	612	612	612	612	612	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1391.5	1391.5	1399.4	1402.0	1402.0	1398.0	1394.2	1398.0	1409.8	1413.7	1412.4
5°	1386.4	1396.7	1411.2	1413.7	1416.3	1415.0	1412.4	1415.0	1428.1	1430.7	1432.0
7.5°	1375.9	1395.5	1413.7	1417.7	1421.5	1417.7	1416.3	1419.0	1432.0	1434.6	1434.6
10°	1362.8	1390.2	1411.2	1413.7	1417.7	1413.7	1413.7	1419.0	1432.0	1434.6	1436.0
12.5°	1344.6	1382.4	1402.0	1404.6	1409.8	1408.5	1407.2	1412.4	1425.5	1428.1	1428.1
15°	1323.6	1368.1	1386.4	1388.9	1398.0	1395.5	1395.5	1400.7	1415.0	1419.0	1417.7
17.5°	1295.0	1349.8	1370.7	1374.6	1381.1	1379.7	1381.1	1386.4	1399.4	1402.0	1403.3
20°	1262.3	1325.0	1349.8	1353.7	1360.2	1360.2	1360.2	1366.7	1379.7	1385.0	1385.0
22.5°	1217.9	1298.8	1325.0	1327.6	1335.4	1335.4	1338.0	1347.1	1358.9	1360.2	1360.2
25°	1165.7	1270.2	1292.3	1300.2	1308.0	1311.9	1315.8	1321.1	1325.0	1323.6	1325.0
27.5°	1110.9	1233.6	1262.3	1267.5	1278.0	1281.9	1287.1	1288.5	1289.7	1293.6	1291.0
30°	1049.6	1182.6	1225.7	1230.9	1247.9	1250.5	1245.4	1247.9	1254.5	1257.1	1259.7
32.5°	980.3	1107.0	1187.9	1199.6	1215.3	1207.4	1206.2	1210.1	1220.6	1220.6	1223.1
35°	886.3	1048.3	1152.7	1163.1	1174.8	1165.7	1170.9	1172.3	1178.8	1182.6	1181.4
37.5°	783.2	997.3	1116.1	1123.9	1133.0	1121.3	1129.2	1133.0	1138.3	1135.7	1135.7
40°	691.9	917.7	1073.1	1078.2	1086.1	1076.9	1084.7	1087.4	1090.0	1087.4	1086.1
42.5°	624.0	830.2	1027.3	1033.8	1028.6	1035.1	1037.8	1043.0	1039.1	1033.8	1033.8
45°	571.8	806.7	977.7	985.5	977.7	988.2	992.1	992.1	980.3	977.7	976.4
47.5°	554.8	759.8	928.1	928.1	924.2	937.2	943.8	934.6	922.9	919.0	919.0
50°	553.5	707.5	860.3	855.0	873.3	889.0	882.5	873.3	864.2	849.8	849.8
52.5°	502.6	643.6	772.8	792.4	821.1	830.2	819.7	810.7	794.9	788.4	783.2
55°	466.0	577.0	693.2	732.3	762.3	774.1	754.5	745.3	721.8	718.0	715.3
57.5°	458.2	480.4	620.1	669.7	706.2	704.9	693.2	676.2	656.6	652.7	651.4
60°	420.3	347.2	541.7	600.5	638.3	634.4	624.0	608.3	590.0	587.5	584.8
62.5°	381.2	251.9	453.0	519.6	573.0	571.8	562.7	539.2	526.1	519.6	514.4
65°	323.8	211.4	322.4	432.1	509.1	511.7	492.1	475.1	460.8	453.0	451.6
67.5°	246.7	172.3	218.0	360.3	447.8	445.1	420.3	412.5	394.2	390.3	382.5
70°	182.8	114.9	151.5	292.4	387.7	381.2	361.6	352.4	335.5	326.3	321.1
72.5°	151.5	92.7	111.0	227.1	326.3	318.5	301.5	291.1	276.7	268.9	263.7
75°	122.7	97.9	84.9	168.4	265.0	259.7	244.1	233.7	221.9	211.4	212.8
77.5°	90.1	91.4	67.9	124.0	210.1	202.3	193.2	180.1	174.9	164.5	164.5
80°	67.9	71.8	50.9	84.9	151.5	151.5	143.6	134.5	125.3	120.1	120.1
82.5°	45.6	45.6	37.8	53.5	103.1	99.2	94.0	91.4	86.2	83.6	83.6
85°	20.8	26.1	23.5	32.6	56.1	58.8	58.8	56.1	54.8	52.2	53.5
87.5°	6.5	11.8	14.3	18.3	28.8	30.0	31.3	31.3	31.3	32.6	32.6
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8	15.6	15.6
92.5°	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7	78.1	75.0
95°	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1	265.1	255.7
97.5°	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3	611.9	594.0
100°	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4	859.3	837.9
102.5°	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7	1070.5	1052.2
105°	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2	1317.1	1307.3
107.5°	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3	1445.3	1447.7
110°	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5	1478.1	1488.4



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CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0	1457.2	1472.9
115°	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8	1386.2	1407.9
117.5°	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0	1288.0	1312.1
120°	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8	1221.8	1245.3
122.5°	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4	1155.6	1178.7
125°	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7	1068.0	1089.4
127.5°	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0	997.8	1015.8
130°	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4	953.4	970.0
132.5°	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1	915.6	930.5
135°	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8	862.1	875.0
137.5°	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3	822.7	833.2
140°	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2	791.1	800.9
142.5°	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4	768.9	777.4
145°	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9	735.6	742.0
147.5°	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3	707.7	713.0
150°	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6	691.6	695.8
152.5°	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1	678.9	682.1
155°	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0	663.6	665.8
157.5°	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2	650.5	652.0
160°	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8	644.0	644.9
162.5°	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7	637.8	638.5
165°	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5	628.4	629.3
167.5°	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0	624.2	624.6
170°	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0	624.2	624.2
172.5°	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8	621.0	620.7
175°	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8	616.4	616.4
177.5°	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5	615.6	615.2
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1415.0	1411.2	1415.0	1412.4	1413.7	1409.8	1398.0	1394.2	1398.0	1402.0	1402.0
5°	1432.0	1429.4	1432.0	1432.0	1430.7	1428.1	1415.0	1412.4	1415.0	1416.3	1413.7
7.5°	1437.2	1433.3	1437.2	1434.6	1434.6	1432.0	1419.0	1416.3	1417.7	1421.5	1417.7
10°	1437.2	1433.3	1437.2	1436.0	1434.6	1432.0	1419.0	1413.7	1413.7	1417.7	1413.7
12.5°	1430.7	1428.1	1430.7	1428.1	1428.1	1425.5	1412.4	1407.2	1408.5	1409.8	1404.6
15°	1420.2	1416.3	1420.2	1417.7	1419.0	1415.0	1400.7	1395.5	1395.5	1398.0	1388.9
17.5°	1404.6	1399.4	1404.6	1403.3	1402.0	1399.4	1386.4	1381.1	1379.7	1381.1	1374.6
20°	1386.4	1382.4	1386.4	1385.0	1385.0	1379.7	1366.7	1360.2	1360.2	1360.2	1353.7
22.5°	1357.6	1353.7	1357.6	1360.2	1360.2	1358.9	1347.1	1338.0	1335.4	1335.4	1327.6
25°	1325.0	1321.1	1325.0	1325.0	1323.6	1325.0	1321.1	1315.8	1311.9	1308.0	1300.2
27.5°	1293.6	1291.0	1293.6	1291.0	1293.6	1289.7	1288.5	1287.1	1281.9	1278.0	1267.5
30°	1262.3	1259.7	1262.3	1259.7	1257.1	1254.5	1247.9	1245.4	1250.5	1247.9	1230.9
32.5°	1223.1	1220.6	1223.1	1223.1	1220.6	1220.6	1210.1	1206.2	1207.4	1215.3	1199.6
35°	1182.6	1178.8	1182.6	1181.4	1182.6	1178.8	1172.3	1170.9	1165.7	1174.8	1163.1
37.5°	1135.7	1131.8	1135.7	1135.7	1135.7	1138.3	1133.0	1129.2	1121.3	1133.0	1123.9
40°	1087.4	1082.2	1087.4	1086.1	1087.4	1090.0	1087.4	1084.7	1076.9	1086.1	1078.2
42.5°	1032.6	1031.3	1032.6	1033.8	1033.8	1039.1	1043.0	1037.8	1035.1	1028.6	1033.8
45°	973.8	971.2	973.8	976.4	977.7	980.3	992.1	992.1	988.2	977.7	985.5
47.5°	911.1	904.6	911.1	919.0	919.0	922.9	934.6	943.8	937.2	924.2	928.1
50°	844.5	845.9	844.5	849.8	849.8	864.2	873.3	882.5	889.0	873.3	855.0
52.5°	779.3	778.0	779.3	783.2	788.4	794.9	810.7	819.7	830.2	821.1	792.4
55°	714.0	716.7	714.0	715.3	718.0	721.8	745.3	754.5	774.1	762.3	732.3
57.5°	648.8	644.9	648.8	651.4	652.7	656.6	676.2	693.2	704.9	706.2	669.7
60°	573.0	567.8	573.0	584.8	587.5	590.0	608.3	624.0	634.4	638.3	600.5
62.5°	506.4	497.4	506.4	514.4	519.6	526.1	539.2	562.7	571.8	573.0	519.6
65°	436.0	432.1	436.0	451.6	453.0	460.8	475.1	492.1	511.7	509.1	432.1
67.5°	372.1	372.1	372.1	382.5	390.3	394.2	412.5	420.3	445.1	447.8	360.3
70°	313.3	312.0	313.3	321.1	326.3	335.5	352.4	361.6	381.2	387.7	292.4
72.5°	257.2	255.9	257.2	263.7	268.9	276.7	291.1	301.5	318.5	326.3	227.1
75°	207.6	204.9	207.6	212.8	211.4	221.9	233.7	244.1	259.7	265.0	168.4
77.5°	159.3	159.3	159.3	164.5	164.5	174.9	180.1	193.2	202.3	210.1	124.0
80°	118.8	117.5	118.8	120.1	120.1	125.3	134.5	143.6	151.5	151.5	84.9
82.5°	83.6	80.9	83.6	83.6	83.6	86.2	91.4	94.0	99.2	103.1	53.5
85°	52.2	52.2	52.2	53.5	52.2	54.8	56.1	58.8	58.8	56.1	32.6
87.5°	34.0	32.6	34.0	32.6	32.6	31.3	31.3	31.3	30.0	28.8	18.3
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9	18.1	11.5
92.5°	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4	111.5	79.3
95°	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1	274.4	154.5
97.5°	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1	369.6	169.7
100°	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0	404.3	182.5
102.5°	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1	420.2	195.2
105°	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3	432.0	214.1
107.5°	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1	434.1	242.1
110°	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7	430.8	257.7





TEST NUMBER: P935218

CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8	431.0	276.5
115°	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3	434.9	304.9
117.5°	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4	443.0	332.5
120°	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4	449.5	348.5
122.5°	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2	459.0	367.4
125°	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6	471.8	391.6
127.5°	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1	484.5	415.1
130°	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1	493.8	430.7
132.5°	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6	501.3	443.4
135°	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1	509.6	458.2
137.5°	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6	521.9	477.1
140°	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2	529.5	489.9
142.5°	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3	535.8	499.3
145°	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4	544.0	513.7
147.5°	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4	556.0	531.7
150°	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5	562.4	541.2
152.5°	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8	566.4	547.4
155°	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9	575.5	561.0
157.5°	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8	584.5	574.5
160°	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2	588.7	580.6
162.5°	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7	593.0	587.3
165°	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8	599.3	596.7
167.5°	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1	604.3	602.1
170°	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5	608.3	608.2
172.5°	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4	611.1	612.4
177.5°	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1	611.4	612.4
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935218

CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1399.4	1391.5	1391.5	1378.5	1373.2	1369.4	1362.8	1343.3	1338.0	1332.8	1340.6
5°	1411.2	1396.7	1386.4	1362.8	1343.3	1335.4	1310.6	1263.7	1232.2	1208.8	1195.8
7.5°	1413.7	1395.5	1375.9	1339.3	1292.3	1271.5	1195.8	1109.6	1086.1	1065.2	1052.1
10°	1411.2	1390.2	1362.8	1308.0	1197.1	1160.5	1084.7	1028.6	1014.3	1010.3	1014.3
12.5°	1402.0	1382.4	1344.6	1253.2	1097.9	1073.1	1028.6	996.0	993.4	1000.0	1035.1
15°	1386.4	1368.1	1323.6	1180.1	1043.0	1024.8	993.4	981.7	996.0	1041.6	1147.5
17.5°	1370.7	1349.8	1295.0	1108.2	1001.2	988.2	966.0	989.5	1070.4	1131.8	1167.0
20°	1349.8	1325.0	1262.3	1056.1	971.2	959.4	949.0	1054.8	1116.1	1138.3	1157.8
22.5°	1325.0	1298.8	1217.9	1019.5	939.9	930.7	937.2	1091.3	1116.1	1131.8	1148.7
25°	1292.3	1270.2	1165.7	990.8	915.1	904.6	929.4	1087.4	1101.7	1105.7	1139.6
27.5°	1262.3	1233.6	1110.9	964.7	885.1	881.1	935.9	1070.4	1080.9	1084.7	1121.3
30°	1225.7	1182.6	1049.6	937.2	853.7	852.4	937.2	1049.6	1046.9	1057.4	1093.9
32.5°	1187.9	1107.0	980.3	903.3	823.7	822.4	928.1	1018.2	1015.6	1030.0	1057.4
35°	1152.7	1048.3	886.3	864.2	785.9	787.1	905.9	981.7	983.0	996.0	1013.0
37.5°	1116.1	997.3	783.2	821.1	749.3	749.3	875.9	947.7	945.1	949.0	972.5
40°	1073.1	917.7	691.9	764.9	715.3	711.5	839.4	911.1	902.0	900.8	933.4
42.5°	1027.3	830.2	624.0	690.5	676.2	671.0	794.9	866.8	849.8	853.7	895.5
45°	977.7	806.7	571.8	583.5	635.7	631.8	746.6	815.9	804.1	814.6	857.7
47.5°	928.1	759.8	554.8	484.3	592.6	591.3	693.2	766.3	759.8	770.1	815.9
50°	860.3	707.5	553.5	415.2	544.4	549.5	629.2	718.0	718.0	727.1	775.4
52.5°	772.8	643.6	502.6	375.9	488.2	503.9	573.0	676.2	678.8	687.9	731.0
55°	693.2	577.0	466.0	345.9	421.7	455.6	518.2	633.1	638.3	647.4	686.7
57.5°	620.1	480.4	458.2	310.7	360.3	392.9	469.9	591.3	594.0	601.8	639.6
60°	541.7	347.2	420.3	272.8	306.8	331.6	425.5	541.7	550.9	556.0	588.7
62.5°	453.0	251.9	381.2	246.7	280.7	285.9	389.0	494.7	506.4	510.4	530.0
65°	322.4	211.4	323.8	224.6	253.2	254.5	349.9	446.5	456.9	463.4	477.8
67.5°	218.0	172.3	246.7	203.6	232.4	233.7	312.0	390.3	404.7	409.9	419.0
70°	151.5	114.9	182.8	181.5	208.9	211.4	271.5	339.4	352.4	356.4	361.6
72.5°	111.0	92.7	151.5	163.2	184.1	186.6	229.7	282.0	295.0	299.0	301.5
75°	84.9	97.9	122.7	142.3	156.6	158.0	188.0	229.7	238.9	241.5	242.8
77.5°	67.9	91.4	90.1	114.9	127.9	125.3	147.5	177.5	185.3	185.3	185.3
80°	50.9	71.8	67.9	82.2	94.0	91.4	105.7	126.7	129.2	131.8	130.5
82.5°	37.8	45.6	45.6	52.2	62.6	60.1	70.4	82.2	82.2	82.2	84.9
85°	23.5	26.1	20.8	27.4	35.3	34.0	39.1	44.4	45.6	45.6	43.1
87.5°	14.3	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8
92.5°	72.3	44.4	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7
95°	141.8	90.6	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1
97.5°	158.5	113.3	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3
100°	172.2	131.3	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4
102.5°	185.6	147.5	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7
105°	206.0	173.7	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2
107.5°	234.6	204.4	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3
110°	250.9	223.7	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5



TEST NUMBER: P935218

CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	270.0	244.1	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0
115°	298.9	275.0	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8
117.5°	327.0	305.3	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0
120°	343.3	322.9	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8
122.5°	362.3	341.7	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4
125°	386.9	368.1	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7
127.5°	410.3	391.2	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0
130°	425.5	405.1	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4
132.5°	438.3	417.8	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1
135°	453.6	434.9	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8
137.5°	472.5	454.1	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3
140°	485.6	468.6	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2
142.5°	495.4	479.7	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4
145°	510.2	496.6	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9
147.5°	528.4	515.1	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3
150°	538.2	526.1	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6
152.5°	545.1	535.9	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1
155°	559.3	552.5	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0
157.5°	572.8	566.3	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2
160°	579.4	574.3	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8
162.5°	586.3	582.4	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7
165°	595.8	592.3	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5
167.5°	601.7	600.0	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0
170°	607.8	606.1	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0
172.5°	608.5	608.2	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8
175°	612.4	612.4	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8
177.5°	612.4	612.4	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935218  
 CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1331.5	1327.6	1332.8	1318.4	1332.8	1327.6	1331.5	1340.6	1332.8	1338.0	1343.3
5°	1168.3	1161.8	1140.9	1123.9	1140.9	1161.8	1168.3	1195.8	1208.8	1232.2	1263.7
7.5°	1044.3	1039.1	1033.8	1023.4	1033.8	1039.1	1044.3	1052.1	1065.2	1086.1	1109.6
10°	1016.8	1018.2	1026.0	1024.8	1026.0	1018.2	1016.8	1014.3	1010.3	1014.3	1028.6
12.5°	1087.4	1099.2	1142.2	1139.6	1142.2	1099.2	1087.4	1035.1	1000.0	993.4	996.0
15°	1168.3	1172.3	1181.4	1182.6	1181.4	1172.3	1168.3	1147.5	1041.6	996.0	981.7
17.5°	1176.1	1177.5	1184.0	1184.0	1184.0	1177.5	1176.1	1167.0	1131.8	1070.4	989.5
20°	1169.6	1172.3	1185.3	1187.9	1185.3	1172.3	1169.6	1157.8	1138.3	1116.1	1054.8
22.5°	1167.0	1172.3	1182.6	1181.4	1182.6	1172.3	1167.0	1148.7	1131.8	1116.1	1091.3
25°	1154.0	1154.0	1155.3	1156.6	1155.3	1154.0	1154.0	1139.6	1105.7	1101.7	1087.4
27.5°	1126.5	1129.2	1137.0	1135.7	1137.0	1129.2	1126.5	1121.3	1084.7	1080.9	1070.4
30°	1101.7	1099.2	1092.6	1087.4	1092.6	1099.2	1101.7	1093.9	1057.4	1046.9	1049.6
32.5°	1059.9	1053.4	1046.9	1043.0	1046.9	1053.4	1059.9	1057.4	1030.0	1015.6	1018.2
35°	1010.3	1011.7	1010.3	1006.5	1010.3	1011.7	1010.3	1013.0	996.0	983.0	981.7
37.5°	975.2	977.7	976.4	971.2	976.4	977.7	975.2	972.5	949.0	945.1	947.7
40°	938.6	939.9	938.6	934.6	938.6	939.9	938.6	933.4	900.8	902.0	911.1
42.5°	903.3	902.0	898.1	895.5	898.1	902.0	903.3	895.5	853.7	849.8	866.8
45°	862.8	864.2	856.3	852.4	856.3	864.2	862.8	857.7	814.6	804.1	815.9
47.5°	822.4	822.4	815.9	811.9	815.9	822.4	822.4	815.9	770.1	759.8	766.3
50°	779.3	778.0	768.9	767.6	768.9	778.0	779.3	775.4	727.1	718.0	718.0
52.5°	729.7	729.7	731.0	733.6	731.0	729.7	729.7	731.0	687.9	678.8	676.2
55°	686.7	687.9	697.0	699.7	697.0	687.9	686.7	686.7	647.4	638.3	633.1
57.5°	642.2	642.2	648.8	648.8	648.8	642.2	642.2	639.6	601.8	594.0	591.3
60°	591.3	594.0	599.1	597.8	599.1	594.0	591.3	588.7	556.0	550.9	541.7
62.5°	537.8	540.4	541.7	539.2	541.7	540.4	537.8	530.0	510.4	506.4	494.7
65°	481.6	484.3	485.6	483.0	485.6	484.3	481.6	477.8	463.4	456.9	446.5
67.5°	424.2	423.0	421.7	426.8	421.7	423.0	424.2	419.0	409.9	404.7	390.3
70°	365.5	365.5	364.2	366.8	364.2	365.5	365.5	361.6	356.4	352.4	339.4
72.5°	302.8	301.5	306.8	302.8	306.8	301.5	302.8	301.5	299.0	295.0	282.0
75°	241.5	244.1	241.5	245.4	241.5	244.1	241.5	242.8	241.5	238.9	229.7
77.5°	184.1	186.6	184.1	184.1	184.1	186.6	184.1	185.3	185.3	185.3	177.5
80°	130.5	129.2	129.2	127.9	129.2	129.2	130.5	130.5	131.8	129.2	126.7
82.5°	83.6	82.2	82.2	84.9	82.2	82.2	83.6	84.9	82.2	82.2	82.2
85°	45.6	47.0	44.4	44.4	44.4	47.0	45.6	43.1	45.6	45.6	44.4
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.3	18.3	18.3	19.6
90°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9
92.5°	78.1	75.0	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4
95°	265.1	255.7	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1
97.5°	611.9	594.0	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1
100°	859.3	837.9	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0
102.5°	1070.5	1052.2	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1
105°	1317.1	1307.3	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3
107.5°	1445.3	1447.7	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1
110°	1478.1	1488.4	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7



TEST NUMBER: P935218

CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1457.2	1472.9	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8
115°	1386.2	1407.9	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3
117.5°	1288.0	1312.1	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4
120°	1221.8	1245.3	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4
122.5°	1155.6	1178.7	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2
125°	1068.0	1089.4	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6
127.5°	997.8	1015.8	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1
130°	953.4	970.0	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1
132.5°	915.6	930.5	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6
135°	862.1	875.0	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1
137.5°	822.7	833.2	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6
140°	791.1	800.9	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2
142.5°	768.9	777.4	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3
145°	735.6	742.0	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4
147.5°	707.7	713.0	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4
150°	691.6	695.8	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5
152.5°	678.9	682.1	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8
155°	663.6	665.8	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9
157.5°	650.5	652.0	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8
160°	644.0	644.9	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2
162.5°	637.8	638.5	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7
165°	628.4	629.3	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8
167.5°	624.2	624.6	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1
170°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5
172.5°	621.0	620.7	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4
177.5°	615.6	615.2	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935218  
 CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1362.8	1369.4	1373.2	1378.5	1391.5
5°	1310.6	1335.4	1343.3	1362.8	1386.4
7.5°	1195.8	1271.5	1292.3	1339.3	1375.9
10°	1084.7	1160.5	1197.1	1308.0	1362.8
12.5°	1028.6	1073.1	1097.9	1253.2	1344.6
15°	993.4	1024.8	1043.0	1180.1	1323.6
17.5°	966.0	988.2	1001.2	1108.2	1295.0
20°	949.0	959.4	971.2	1056.1	1262.3
22.5°	937.2	930.7	939.9	1019.5	1217.9
25°	929.4	904.6	915.1	990.8	1165.7
27.5°	935.9	881.1	885.1	964.7	1110.9
30°	937.2	852.4	853.7	937.2	1049.6
32.5°	928.1	822.4	823.7	903.3	980.3
35°	905.9	787.1	785.9	864.2	886.3
37.5°	875.9	749.3	749.3	821.1	783.2
40°	839.4	711.5	715.3	764.9	691.9
42.5°	794.9	671.0	676.2	690.5	624.0
45°	746.6	631.8	635.7	583.5	571.8
47.5°	693.2	591.3	592.6	484.3	554.8
50°	629.2	549.5	544.4	415.2	553.5
52.5°	573.0	503.9	488.2	375.9	502.6
55°	518.2	455.6	421.7	345.9	466.0
57.5°	469.9	392.9	360.3	310.7	458.2
60°	425.5	331.6	306.8	272.8	420.3
62.5°	389.0	285.9	280.7	246.7	381.2
65°	349.9	254.5	253.2	224.6	323.8
67.5°	312.0	233.7	232.4	203.6	246.7
70°	271.5	211.4	208.9	181.5	182.8
72.5°	229.7	186.6	184.1	163.2	151.5
75°	188.0	158.0	156.6	142.3	122.7
77.5°	147.5	125.3	127.9	114.9	90.1
80°	105.7	91.4	94.0	82.2	67.9
82.5°	70.4	60.1	62.6	52.2	45.6
85°	39.1	34.0	35.3	27.4	20.8
87.5°	18.3	15.7	15.7	10.5	6.5
90°	18.1	11.5	10.7	7.4	4.1
92.5°	111.5	79.3	72.3	44.4	16.4
95°	274.4	154.5	141.8	90.6	39.4
97.5°	369.6	169.7	158.5	113.3	68.2
100°	404.3	182.5	172.2	131.3	90.4
102.5°	420.2	195.2	185.6	147.5	109.3
105°	432.0	214.1	206.0	173.7	141.4
107.5°	434.1	242.1	234.6	204.4	174.3
110°	430.8	257.7	250.9	223.7	196.4



TEST NUMBER: P935218

CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	431.0	276.5	270.0	244.1	218.2
115°	434.9	304.9	298.9	275.0	251.1
117.5°	443.0	332.5	327.0	305.3	283.6
120°	449.5	348.5	343.3	322.9	302.4
122.5°	459.0	367.4	362.3	341.7	321.0
125°	471.8	391.6	386.9	368.1	349.4
127.5°	484.5	415.1	410.3	391.2	372.3
130°	493.8	430.7	425.5	405.1	384.6
132.5°	501.3	443.4	438.3	417.8	397.4
135°	509.6	458.2	453.6	434.9	416.3
137.5°	521.9	477.1	472.5	454.1	435.6
140°	529.5	489.9	485.6	468.6	451.6
142.5°	535.8	499.3	495.4	479.7	464.0
145°	544.0	513.7	510.2	496.6	482.8
147.5°	556.0	531.7	528.4	515.1	501.8
150°	562.4	541.2	538.2	526.1	514.1
152.5°	566.4	547.4	545.1	535.9	526.8
155°	575.5	561.0	559.3	552.5	545.8
157.5°	584.5	574.5	572.8	566.3	559.7
160°	588.7	580.6	579.4	574.3	569.2
162.5°	593.0	587.3	586.3	582.4	578.6
165°	599.3	596.7	595.8	592.3	588.8
167.5°	604.3	602.1	601.7	600.0	598.3
170°	608.3	608.2	607.8	606.1	604.6
172.5°	608.6	608.6	608.5	608.2	607.8
175°	611.1	612.4	612.4	612.4	612.4
177.5°	611.4	612.4	612.4	612.4	612.4
180°	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935218  
 CATALOG NUMBER: SQ4-FA-100U-100D-840-1D-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	13.41	14.25	14.39	15.24	16.55	16.21	17.04	17.18	18.04	19.34
	3H	13.88	14.64	14.87	15.64	16.97	17.54	18.29	18.53	19.29	20.62
	4H	14.07	14.79	15.08	15.79	17.13	17.98	18.69	18.98	19.69	21.03
	6H	14.19	14.85	15.21	15.86	17.21	18.25	18.91	19.27	19.92	21.27
	8H	14.19	14.82	15.21	15.84	17.19	18.32	18.95	19.34	19.97	21.32
	12H	14.16	14.76	15.19	15.78	17.15	18.36	18.95	19.38	19.97	21.34
4H	2H	14.43	15.14	15.44	16.15	17.48	16.61	17.33	17.62	18.33	19.67
	3H	15.46	16.05	16.47	17.08	18.43	18.11	18.70	19.13	19.73	21.09
	4H	15.73	16.27	16.76	17.30	18.67	18.63	19.17	19.65	20.20	21.57
	6H	15.85	16.32	16.89	17.37	18.74	18.98	19.45	20.02	20.50	21.87
	8H	15.86	16.30	16.90	17.34	18.72	19.09	19.52	20.12	20.56	21.95
	12H	15.83	16.22	16.88	17.28	18.67	19.14	19.53	20.19	20.59	21.98
8H	4H	16.18	16.61	17.22	17.65	19.04	18.75	19.19	19.79	20.23	21.61
	6H	16.44	16.80	17.50	17.88	19.26	19.18	19.54	20.24	20.62	22.01
	8H	16.48	16.80	17.55	17.86	19.27	19.33	19.64	20.40	20.71	22.11
	12H	16.46	16.74	17.54	17.80	19.25	19.42	19.70	20.49	20.76	22.20
12H	4H	16.18	16.57	17.24	17.63	19.02	18.72	19.11	19.77	20.17	21.56
	6H	16.50	16.81	17.57	17.88	19.28	19.18	19.49	20.25	20.56	21.96
	8H	16.56	16.84	17.64	17.90	19.35	19.33	19.61	20.41	20.67	22.12