

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: P935214

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

Issue Date: 12/17/2024

**Test Information**

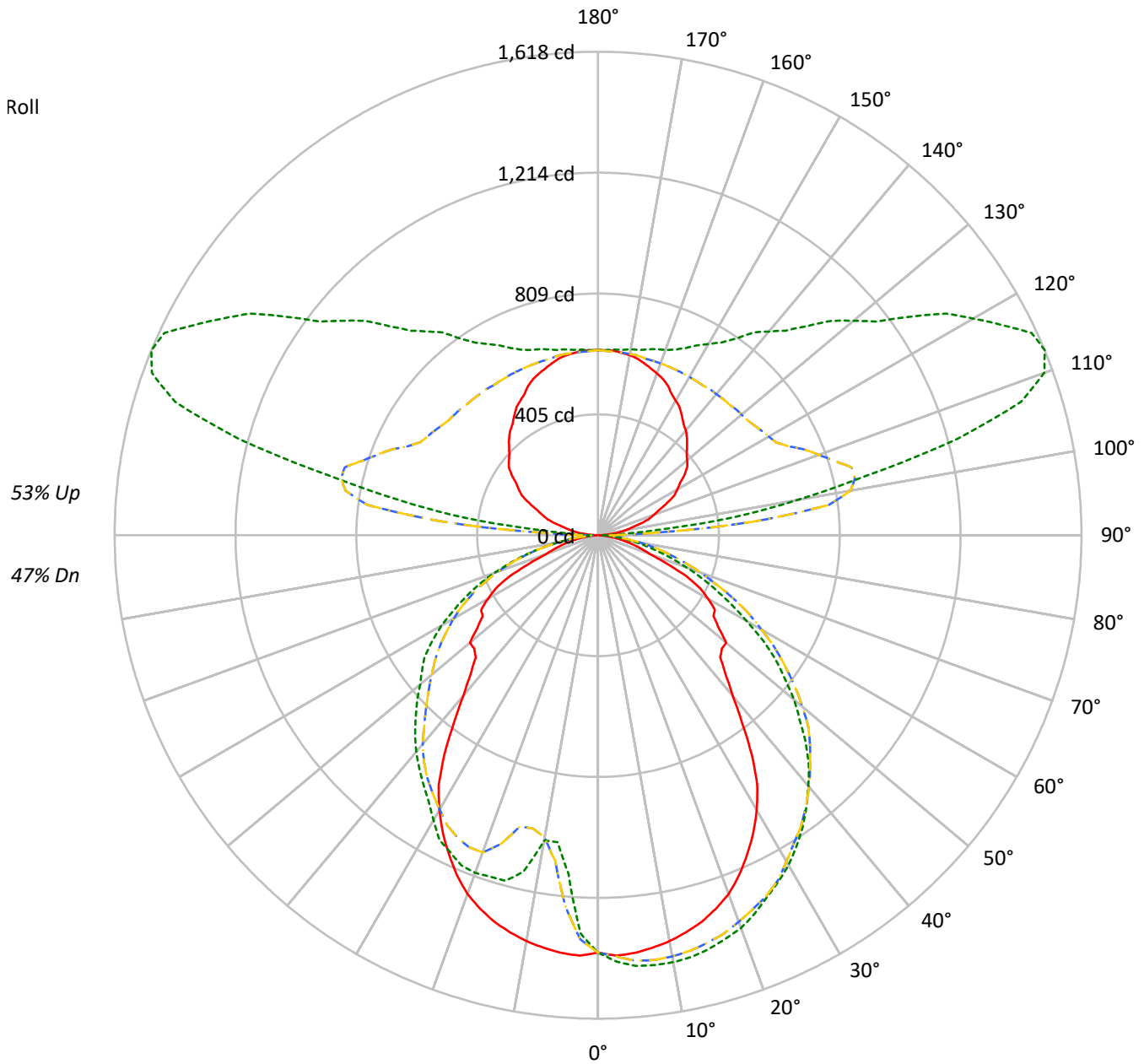
Test Method: LM-79-2019  
Report Number: P935214  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7641.0 lumens  
Efficiency: N/A  
Efficacy: 131.7 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	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

**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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	1.6
10°-20°	357.9	4.7
20°-30°	553.3	7.2
30°-40°	660.5	8.6
40°-50°	664.4	8.7
50°-60°	578.1	7.6
60°-70°	409.9	5.4
70°-80°	216.8	2.8
80°-90°	56.4	0.7
90°-100°	302.1	4.0
100°-110°	794.2	10.4
110°-120°	823.5	10.8
120°-130°	660.6	8.6
130°-140°	518.3	6.8
140°-150°	397.8	5.2
150°-160°	286.5	3.7
160°-170°	175.3	2.3
170°-180°	59.2	0.8
0°-30°	1037.3	13.6
0°-40°	1697.8	22.2
0°-60°	2940.3	38.5
0°-90°	3623.4	47.4
90°-120°	1919.9	25.1
90°-150°	3496.6	45.8
90°-180°	4018.0	52.6
0°-180°	7641.0	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°	4	16	4	16	4	4
95°	40	183	40	183	40	44
105°	143	1244	143	1244	143	152
115°	254	1601	254	1601	254	251
125°	354	1275	354	1275	354	314
135°	421	990	421	990	421	326
145°	489	803	489	803	489	306
155°	552	691	552	691	552	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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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°	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1	15.8	15.8
92.5°	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0	79.0	75.9
95°	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3	268.3	258.8
97.5°	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4	619.3	601.2
100°	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8	869.7	848.1
102.5°	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9	1083.5	1065.0
105°	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4	1333.1	1323.2
107.5°	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3	1462.9	1465.3
110°	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6	1496.1	1506.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8	1474.9	1490.8
115°	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8	1403.0	1425.0
117.5°	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1	1303.6	1328.0
120°	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3	1236.6	1260.4
122.5°	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4	1169.6	1193.0
125°	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9	1081.0	1102.6
127.5°	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6	1009.9	1028.1
130°	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6	965.0	981.8
132.5°	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0	926.7	941.8
135°	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3	872.6	885.6
137.5°	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4	832.7	843.3
140°	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1	800.7	810.6
142.5°	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1	778.2	786.8
145°	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3	744.5	751.0
147.5°	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5	716.3	721.7
150°	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6	700.0	704.3
152.5°	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0	687.1	690.4
155°	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8	671.7	673.9
157.5°	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9	658.4	659.9
160°	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5	651.8	652.7
162.5°	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3	645.5	646.3
165°	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0	636.0	636.9
167.5°	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5	631.8	632.2
170°	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5	631.8	631.8
172.5°	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3	628.5	628.2
175°	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3	623.9	623.9
177.5°	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0	623.1	622.7
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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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°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2	18.3	11.6
92.5°	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3	112.9	80.3
95°	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4	277.7	156.4
97.5°	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8	374.1	171.8
100°	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5	409.2	184.7
102.5°	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8	425.3	197.6
105°	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1	437.2	216.7
107.5°	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5	439.4	245.0
110°	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7	436.0	260.8





TEST NUMBER: P935214

CATALOG NUMBER: SQ4-FA-100U-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°	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5	436.2	279.9
115°	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7	440.2	308.6
117.5°	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6	448.4	336.5
120°	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5	455.0	352.7
122.5°	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3	464.6	371.9
125°	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6	477.5	396.4
127.5°	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1	490.4	420.1
130°	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1	499.8	435.9
132.5°	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6	507.4	448.8
135°	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1	515.8	463.8
137.5°	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7	528.2	482.9
140°	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3	535.9	495.8
142.5°	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4	542.3	505.4
145°	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5	550.6	519.9
147.5°	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5	562.8	538.2
150°	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7	569.2	547.8
152.5°	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0	573.3	554.0
155°	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1	582.5	567.8
157.5°	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1	591.6	581.5
160°	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5	595.8	587.7
162.5°	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0	600.2	594.4
165°	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1	606.6	603.9
167.5°	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5	611.6	609.4
170°	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9	615.7	615.6
172.5°	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8	618.5	619.8
177.5°	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5	618.8	619.8
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935214

CATALOG NUMBER: SQ4-FA-100U-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°	10.8	7.5	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1
92.5°	73.2	44.9	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0
95°	143.5	91.7	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3
97.5°	160.4	114.7	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4
100°	174.3	132.9	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8
102.5°	187.9	149.3	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9
105°	208.5	175.8	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4
107.5°	237.4	206.9	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3
110°	253.9	226.4	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6



TEST NUMBER: P935214

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

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.3	247.1	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8
115°	302.5	278.3	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8
117.5°	331.0	309.0	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1
120°	347.5	326.8	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3
122.5°	366.7	345.8	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4
125°	391.6	372.6	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9
127.5°	415.3	396.0	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6
130°	430.7	410.0	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6
132.5°	443.6	422.9	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0
135°	459.1	440.2	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3
137.5°	478.2	459.6	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4
140°	491.5	474.3	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1
142.5°	501.4	485.5	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1
145°	516.4	502.6	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3
147.5°	534.8	521.4	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5
150°	544.7	532.5	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6
152.5°	551.7	542.4	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0
155°	566.1	559.2	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8
157.5°	579.8	573.2	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9
160°	586.4	581.3	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5
162.5°	593.4	589.5	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3
165°	603.0	599.5	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0
167.5°	609.0	607.3	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5
170°	615.2	613.5	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5
172.5°	615.9	615.6	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3
175°	619.8	619.8	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3
177.5°	619.8	619.8	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935214  
 CATALOG NUMBER: SQ4-FA-100U-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°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2
92.5°	79.0	75.9	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3
95°	268.3	258.8	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4
97.5°	619.3	601.2	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8
100°	869.7	848.1	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5
102.5°	1083.5	1065.0	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8
105°	1333.1	1323.2	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1
107.5°	1462.9	1465.3	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5
110°	1496.1	1506.5	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1474.9	1490.8	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5
115°	1403.0	1425.0	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7
117.5°	1303.6	1328.0	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6
120°	1236.6	1260.4	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5
122.5°	1169.6	1193.0	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3
125°	1081.0	1102.6	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6
127.5°	1009.9	1028.1	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1
130°	965.0	981.8	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1
132.5°	926.7	941.8	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6
135°	872.6	885.6	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1
137.5°	832.7	843.3	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7
140°	800.7	810.6	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3
142.5°	778.2	786.8	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4
145°	744.5	751.0	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5
147.5°	716.3	721.7	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5
150°	700.0	704.3	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7
152.5°	687.1	690.4	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0
155°	671.7	673.9	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1
157.5°	658.4	659.9	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1
160°	651.8	652.7	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5
162.5°	645.5	646.3	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0
165°	636.0	636.9	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1
167.5°	631.8	632.2	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5
170°	631.8	631.8	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9
172.5°	628.5	628.2	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8
177.5°	623.1	622.7	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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**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°	18.3	11.6	10.8	7.5	4.2
92.5°	112.9	80.3	73.2	44.9	16.6
95°	277.7	156.4	143.5	91.7	39.9
97.5°	374.1	171.8	160.4	114.7	69.0
100°	409.2	184.7	174.3	132.9	91.5
102.5°	425.3	197.6	187.9	149.3	110.6
105°	437.2	216.7	208.5	175.8	143.1
107.5°	439.4	245.0	237.4	206.9	176.4
110°	436.0	260.8	253.9	226.4	198.8



TEST NUMBER: P935214

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	436.2	279.9	273.3	247.1	220.9
115°	440.2	308.6	302.5	278.3	254.1
117.5°	448.4	336.5	331.0	309.0	287.0
120°	455.0	352.7	347.5	326.8	306.1
122.5°	464.6	371.9	366.7	345.8	324.9
125°	477.5	396.4	391.6	372.6	353.6
127.5°	490.4	420.1	415.3	396.0	376.8
130°	499.8	435.9	430.7	410.0	389.3
132.5°	507.4	448.8	443.6	422.9	402.2
135°	515.8	463.8	459.1	440.2	421.4
137.5°	528.2	482.9	478.2	459.6	440.9
140°	535.9	495.8	491.5	474.3	457.1
142.5°	542.3	505.4	501.4	485.5	469.6
145°	550.6	519.9	516.4	502.6	488.7
147.5°	562.8	538.2	534.8	521.4	507.9
150°	569.2	547.8	544.7	532.5	520.3
152.5°	573.3	554.0	551.7	542.4	533.2
155°	582.5	567.8	566.1	559.2	552.4
157.5°	591.6	581.5	579.8	573.2	566.5
160°	595.8	587.7	586.4	581.3	576.1
162.5°	600.2	594.4	593.4	589.5	585.6
165°	606.6	603.9	603.0	599.5	596.0
167.5°	611.6	609.4	609.0	607.3	605.6
170°	615.7	615.6	615.2	613.5	611.9
172.5°	616.0	616.0	615.9	615.6	615.2
175°	618.5	619.8	619.8	619.8	619.8
177.5°	618.8	619.8	619.8	619.8	619.8
180°	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935214  
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**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	13.45	14.29	14.43	15.28	16.59	16.25	17.09	17.23	18.08	19.39
	3H	13.93	14.68	14.92	15.68	17.01	17.58	18.33	18.57	19.33	20.66
	4H	14.12	14.83	15.12	15.83	17.17	18.02	18.73	19.02	19.73	21.07
	6H	14.23	14.89	15.25	15.90	17.25	18.29	18.95	19.31	19.96	21.31
	8H	14.24	14.86	15.25	15.88	17.23	18.36	18.99	19.38	20.01	21.36
	12H	14.21	14.80	15.23	15.82	17.19	18.40	18.99	19.42	20.01	21.38
4H	2H	14.47	15.18	15.48	16.19	17.53	16.66	17.37	17.67	18.37	19.71
	3H	15.50	16.09	16.52	17.12	18.47	18.15	18.74	19.17	19.78	21.13
	4H	15.77	16.31	16.80	17.34	18.71	18.67	19.21	19.70	20.24	21.61
	6H	15.90	16.36	16.93	17.41	18.78	19.03	19.49	20.06	20.54	21.91
	8H	15.90	16.34	16.94	17.38	18.76	19.13	19.56	20.17	20.61	21.99
	12H	15.87	16.26	16.92	17.32	18.71	19.18	19.57	20.23	20.63	22.02
8H	4H	16.22	16.65	17.26	17.70	19.08	18.79	19.23	19.83	20.27	21.66
	6H	16.48	16.84	17.54	17.92	19.31	19.22	19.58	20.28	20.67	22.05
	8H	16.52	16.84	17.59	17.91	19.31	19.37	19.68	20.44	20.75	22.15
	12H	16.51	16.78	17.58	17.85	19.29	19.46	19.74	20.53	20.80	22.24
12H	4H	16.22	16.62	17.28	17.67	19.06	18.76	19.15	19.81	20.21	21.60
	6H	16.54	16.86	17.61	17.92	19.33	19.22	19.54	20.29	20.60	22.01
	8H	16.60	16.88	17.68	17.95	19.39	19.37	19.65	20.45	20.72	22.16