

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: P935012

Luminaire Tested: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

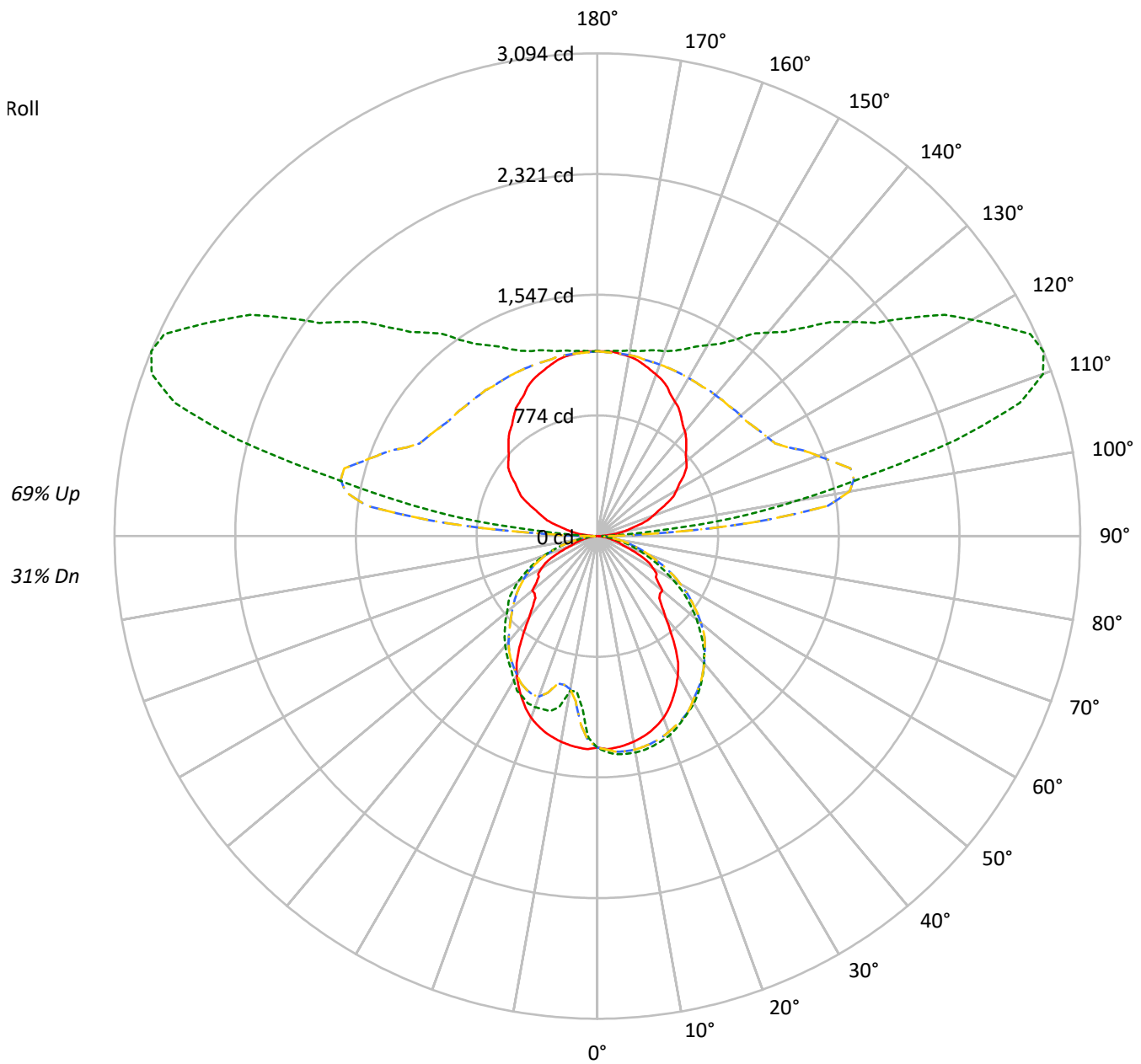
Test Method: LM-79-2019  
Report Number: P935012  
REPORT IS A COMBINATION OF REPORTS P933740 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11200.5 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 82.4  
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				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

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

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6335	6348	6335	4992
10°	6293	6253	6293	4470
15°	6225	6118	6225	5108
20°	6094	5957	6094	5119
25°	5828	5723	5828	5010
30°	5484	5529	5484	4772
35°	4888	5283	4888	4510
40°	4073	4993	4073	4313
45°	3639	4655	3639	4086
50°	3867	4251	3867	3857
55°	3637	3816	3637	3725
60°	3750	3241	3750	3412
65°	3400	2679	3400	2995
70°	2354	2135	2354	2510
75°	2066	1578	2066	1890
80°	1662	1043	1662	1135
85°	960	553	960	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5578 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	1.1
10°-20°	347.4	3.1
20°-30°	537.0	4.8
30°-40°	641.0	5.7
40°-50°	644.8	5.8
50°-60°	561.1	5.0
60°-70°	397.8	3.6
70°-80°	210.5	1.9
80°-90°	56.9	0.5
90°-100°	577.6	5.2
100°-110°	1518.6	13.6
110°-120°	1574.6	14.1
120°-130°	1263.0	11.3
130°-140°	991.0	8.8
140°-150°	760.7	6.8
150°-160°	547.8	4.9
160°-170°	335.2	3.0
170°-180°	113.2	1.0
0°-30°	1006.7	9.0
0°-40°	1647.7	14.7
0°-60°	2853.6	25.5
0°-90°	3518.8	31.4
90°-120°	3670.8	32.8
90°-150°	6685.5	59.7
90°-180°	7682.0	68.6
0°-180°	11200.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1355	1355	1355	1355	1355	
5°	1362	1404	1362	1104	1362	129
15°	1300	1391	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	837	562	450
55°	458	704	458	687	458	421
65°	318	424	318	474	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	8	30	8	30	8	7
95°	76	349	76	349	76	85
105°	274	2378	274	2378	274	290
115°	486	3062	486	3062	486	480
125°	676	2438	676	2438	676	600
135°	806	1892	806	1892	806	623
145°	934	1535	934	1535	934	585
155°	1056	1322	1056	1322	1056	485
165°	1140	1231	1140	1231	1140	322
175°	1185	1193	1185	1193	1185	112
180°	1185	1185	1185	1185	1185	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1366.9	1366.9	1374.6	1377.2	1377.2	1373.3	1369.5	1373.3	1384.9	1388.7	1387.4
5°	1361.8	1372.1	1386.2	1388.7	1391.3	1390.0	1387.4	1390.0	1402.8	1405.4	1406.7
7.5°	1351.5	1370.8	1388.7	1392.6	1396.4	1392.6	1391.3	1393.8	1406.7	1409.2	1409.2
10°	1338.7	1365.6	1386.2	1388.7	1392.6	1388.7	1388.7	1393.8	1406.7	1409.2	1410.5
12.5°	1320.7	1357.9	1377.2	1379.7	1384.9	1383.6	1382.3	1387.4	1400.3	1402.8	1402.8
15°	1300.3	1343.8	1361.8	1364.3	1373.3	1370.8	1370.8	1375.9	1390.0	1393.8	1392.6
17.5°	1272.1	1325.9	1346.4	1350.3	1356.7	1355.4	1356.7	1361.8	1374.6	1377.2	1378.5
20°	1239.9	1301.5	1325.9	1329.7	1336.1	1336.1	1336.1	1342.5	1355.4	1360.5	1360.5
22.5°	1196.3	1275.9	1301.5	1304.1	1311.8	1311.8	1314.3	1323.3	1334.9	1336.1	1336.1
25°	1145.1	1247.7	1269.5	1277.1	1284.9	1288.7	1292.5	1297.7	1301.5	1300.3	1301.5
27.5°	1091.3	1211.7	1239.9	1245.1	1255.3	1259.2	1264.3	1265.6	1266.9	1270.7	1268.2
30°	1031.0	1161.7	1204.1	1209.2	1225.9	1228.5	1223.3	1225.9	1232.3	1234.9	1237.4
32.5°	963.0	1087.4	1166.9	1178.5	1193.9	1186.1	1184.9	1188.7	1198.9	1198.9	1201.5
35°	870.6	1029.7	1132.3	1142.5	1154.1	1145.1	1150.3	1151.5	1157.9	1161.7	1160.5
37.5°	769.4	979.7	1096.3	1104.1	1113.1	1101.5	1109.2	1113.1	1118.1	1115.6	1115.6
40°	679.6	901.4	1054.1	1059.2	1066.9	1057.9	1065.6	1068.1	1070.7	1068.1	1066.9
42.5°	612.9	815.6	1009.2	1015.6	1010.4	1016.9	1019.4	1024.5	1020.7	1015.6	1015.6
45°	561.6	792.4	960.4	968.1	960.4	970.7	974.5	974.5	963.0	960.4	959.2
47.5°	545.0	746.3	911.7	911.7	907.8	920.7	927.1	918.1	906.6	902.8	902.8
50°	543.7	695.0	845.0	839.9	857.8	873.2	866.8	857.8	848.8	834.8	834.8
52.5°	493.7	632.2	759.2	778.4	806.6	815.6	805.2	796.3	781.0	774.5	769.4
55°	457.7	566.8	680.9	719.4	748.8	760.4	741.2	732.2	709.1	705.2	702.7
57.5°	450.1	471.9	609.1	657.8	693.7	692.4	680.9	664.2	645.0	641.2	639.9
60°	412.9	341.1	532.1	589.9	627.0	623.2	612.9	597.5	579.6	577.0	574.5
62.5°	374.5	247.5	444.9	510.3	562.9	561.6	552.7	529.6	516.7	510.3	505.2
65°	318.0	207.7	316.7	424.5	500.1	502.7	483.4	466.7	452.7	444.9	443.7
67.5°	242.3	169.3	214.1	353.9	439.9	437.3	412.9	405.2	387.3	383.5	375.7
70°	179.5	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.5	320.5	315.5
72.5°	148.8	91.0	109.0	223.1	320.5	312.9	296.2	285.9	271.9	264.1	259.0
75°	120.6	96.2	83.4	165.4	260.3	255.2	239.8	229.5	218.0	207.7	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.1	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.3	97.4	92.3	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.7	57.7	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.1	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	7.9	14.3	20.6	22.3	35.0	51.9	60.4	53.7	40.2	30.2	30.2
92.5°	31.8	85.9	140.1	153.5	215.8	298.8	340.3	298.3	214.2	151.1	145.1
95°	76.4	175.3	274.3	299.0	531.0	840.2	994.9	887.8	673.6	513.0	494.8
97.5°	132.0	219.3	306.7	328.5	715.3	1230.9	1488.8	1421.1	1285.7	1184.2	1149.6
100°	174.9	254.1	333.4	353.1	782.3	1354.6	1640.7	1645.7	1655.5	1663.0	1621.7
102.5°	211.6	285.4	359.3	377.7	813.0	1393.4	1683.6	1769.8	1942.4	2071.7	2036.4
105°	273.6	336.1	398.7	414.3	835.8	1397.9	1678.8	1872.1	2258.8	2548.9	2529.9
107.5°	337.2	395.5	453.8	468.4	840.1	1335.6	1583.4	1853.1	2392.5	2797.0	2801.6
110°	380.1	432.8	485.5	498.6	833.7	1280.5	1503.9	1805.4	2408.4	2860.6	2880.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	422.3	472.5	522.7	535.3	834.0	1232.4	1431.5	1740.1	2357.2	2820.1	2850.5
115°	485.9	532.2	578.6	590.1	841.7	1177.1	1344.8	1642.1	2236.7	2682.5	2724.7
117.5°	548.7	590.8	632.9	643.4	857.3	1142.5	1285.2	1553.4	2090.0	2492.4	2539.1
120°	585.4	624.9	664.5	674.4	870.1	1130.9	1261.3	1506.5	1996.7	2364.4	2409.8
122.5°	621.1	661.1	701.0	711.0	888.3	1124.7	1243.0	1463.7	1905.2	2236.4	2281.2
125°	676.0	712.4	748.8	757.9	913.0	1119.8	1223.1	1410.7	1785.7	2067.0	2108.3
127.5°	720.5	757.2	794.1	803.2	937.6	1116.9	1206.5	1367.5	1689.4	1930.9	1965.7
130°	744.3	783.9	823.5	833.4	955.6	1118.6	1200.1	1343.4	1630.1	1845.1	1877.2
132.5°	769.0	808.6	848.2	858.1	970.2	1119.8	1194.5	1322.8	1579.4	1771.9	1800.6
135°	805.6	841.7	877.8	886.8	986.2	1118.7	1185.0	1292.4	1507.3	1668.5	1693.4
137.5°	843.0	878.7	914.4	923.3	1010.0	1125.6	1183.3	1274.2	1455.9	1592.1	1612.5
140°	874.0	906.9	939.7	948.0	1024.5	1126.7	1177.8	1256.3	1413.3	1530.9	1550.0
142.5°	897.9	928.3	958.7	966.2	1036.8	1130.8	1177.8	1246.7	1384.6	1488.0	1504.4
145°	934.5	961.0	987.5	994.1	1052.7	1130.9	1169.9	1226.3	1339.0	1423.6	1435.9
147.5°	971.0	996.8	1022.6	1029.1	1076.1	1138.6	1169.9	1214.2	1302.9	1369.5	1379.7
150°	994.9	1018.2	1041.6	1047.4	1088.2	1142.6	1169.9	1207.3	1282.3	1338.5	1346.8
152.5°	1019.6	1037.3	1054.9	1059.3	1096.1	1145.3	1169.9	1201.9	1265.8	1313.8	1320.1
155°	1056.1	1069.2	1082.3	1085.5	1113.6	1151.1	1169.9	1195.3	1246.2	1284.4	1288.5
157.5°	1083.1	1095.9	1108.7	1111.8	1131.1	1157.0	1169.9	1189.6	1229.2	1259.0	1261.8
160°	1101.5	1111.4	1121.3	1123.8	1139.2	1159.6	1169.9	1186.9	1220.8	1246.2	1248.0
162.5°	1119.8	1127.2	1134.7	1136.5	1147.6	1162.4	1169.9	1184.2	1212.8	1234.3	1235.9
165°	1139.6	1146.3	1153.0	1154.8	1159.8	1166.5	1169.9	1180.1	1200.6	1216.0	1217.8
167.5°	1157.9	1161.1	1164.3	1165.1	1169.3	1174.9	1177.8	1184.5	1198.0	1208.0	1208.7
170°	1169.9	1173.0	1176.3	1177.0	1177.3	1177.6	1177.8	1184.5	1198.0	1208.0	1208.0
172.5°	1176.3	1176.9	1177.6	1177.8	1177.8	1177.8	1177.8	1183.1	1193.8	1201.7	1201.1
175°	1185.0	1185.0	1185.0	1185.0	1182.6	1179.4	1177.8	1181.1	1187.8	1192.9	1192.9
177.5°	1185.0	1185.0	1185.0	1185.0	1183.1	1180.7	1179.4	1182.1	1187.4	1191.4	1190.7
180°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1390.0	1386.2	1390.0	1387.4	1388.7	1384.9	1373.3	1369.5	1373.3	1377.2	1377.2
5°	1406.7	1404.1	1406.7	1406.7	1405.4	1402.8	1390.0	1387.4	1390.0	1391.3	1388.7
7.5°	1411.8	1408.0	1411.8	1409.2	1409.2	1406.7	1393.8	1391.3	1392.6	1396.4	1392.6
10°	1411.8	1408.0	1411.8	1410.5	1409.2	1406.7	1393.8	1388.7	1388.7	1392.6	1388.7
12.5°	1405.4	1402.8	1405.4	1402.8	1402.8	1400.3	1387.4	1382.3	1383.6	1384.9	1379.7
15°	1395.1	1391.3	1395.1	1392.6	1393.8	1390.0	1375.9	1370.8	1370.8	1373.3	1364.3
17.5°	1379.7	1374.6	1379.7	1378.5	1377.2	1374.6	1361.8	1356.7	1355.4	1356.7	1350.3
20°	1361.8	1357.9	1361.8	1360.5	1360.5	1355.4	1342.5	1336.1	1336.1	1336.1	1329.7
22.5°	1333.6	1329.7	1333.6	1336.1	1336.1	1334.9	1323.3	1314.3	1311.8	1311.8	1304.1
25°	1301.5	1297.7	1301.5	1301.5	1300.3	1301.5	1297.7	1292.5	1288.7	1284.9	1277.1
27.5°	1270.7	1268.2	1270.7	1268.2	1270.7	1266.9	1265.6	1264.3	1259.2	1255.3	1245.1
30°	1239.9	1237.4	1239.9	1237.4	1234.9	1232.3	1225.9	1223.3	1228.5	1225.9	1209.2
32.5°	1201.5	1198.9	1201.5	1201.5	1198.9	1198.9	1188.7	1184.9	1186.1	1193.9	1178.5
35°	1161.7	1157.9	1161.7	1160.5	1161.7	1157.9	1151.5	1150.3	1145.1	1154.1	1142.5
37.5°	1115.6	1111.7	1115.6	1115.6	1115.6	1118.1	1113.1	1109.2	1101.5	1113.1	1104.1
40°	1068.1	1063.0	1068.1	1066.9	1068.1	1070.7	1068.1	1065.6	1057.9	1066.9	1059.2
42.5°	1014.3	1013.0	1014.3	1015.6	1015.6	1020.7	1024.5	1019.4	1016.9	1010.4	1015.6
45°	956.6	954.0	956.6	959.2	960.4	963.0	974.5	974.5	970.7	960.4	968.1
47.5°	895.0	888.6	895.0	902.8	902.8	906.6	918.1	927.1	920.7	907.8	911.7
50°	829.6	831.0	829.6	834.8	834.8	848.8	857.8	866.8	873.2	857.8	839.9
52.5°	765.6	764.2	765.6	769.4	774.5	781.0	796.3	805.2	815.6	806.6	778.4
55°	701.4	704.0	701.4	702.7	705.2	709.1	732.2	741.2	760.4	748.8	719.4
57.5°	637.3	633.4	637.3	639.9	641.2	645.0	664.2	680.9	692.4	693.7	657.8
60°	562.9	557.8	562.9	574.5	577.0	579.6	597.5	612.9	623.2	627.0	589.9
62.5°	497.5	488.5	497.5	505.2	510.3	516.7	529.6	552.7	561.6	562.9	510.3
65°	428.3	424.5	428.3	443.7	444.9	452.7	466.7	483.4	502.7	500.1	424.5
67.5°	365.5	365.5	365.5	375.7	383.5	387.3	405.2	412.9	437.3	439.9	353.9
70°	307.7	306.5	307.7	315.5	320.5	329.5	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.3	252.6	259.0	264.1	271.9	285.9	296.2	312.9	320.5	223.1
75°	203.9	201.3	203.9	209.0	207.7	218.0	229.5	239.8	255.2	260.3	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.7	115.4	116.7	118.0	118.0	123.1	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.5	82.0	82.0	82.0	84.6	89.8	92.3	97.4	101.3	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.7	57.7	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	30.2	30.2	30.2	30.2	30.2	40.2	53.7	60.4	51.9	35.0	22.3
92.5°	121.1	97.0	121.1	145.1	151.1	214.2	298.3	340.3	298.8	215.8	153.5
95°	422.0	349.1	422.0	494.8	513.0	673.6	887.8	994.9	840.2	531.0	299.0
97.5°	1011.0	872.4	1011.0	1149.6	1184.2	1285.7	1421.1	1488.8	1230.9	715.3	328.5
100°	1456.7	1291.6	1456.7	1621.7	1663.0	1655.5	1645.7	1640.7	1354.6	782.3	353.1
102.5°	1895.0	1753.6	1895.0	2036.4	2071.7	1942.4	1769.8	1683.6	1393.4	813.0	377.7
105°	2453.9	2377.9	2453.9	2529.9	2548.9	2258.8	1872.1	1678.8	1397.9	835.8	414.3
107.5°	2820.0	2838.4	2820.0	2801.6	2797.0	2392.5	1853.1	1583.4	1335.6	840.1	468.4
110°	2959.6	3038.7	2959.6	2880.4	2860.6	2408.4	1805.4	1503.9	1280.5	833.7	498.6





TEST NUMBER: P935012

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2972.0	3093.6	2972.0	2850.5	2820.1	2357.2	1740.1	1431.5	1232.4	834.0	535.3
115°	2893.2	3061.9	2893.2	2724.7	2682.5	2236.7	1642.1	1344.8	1177.1	841.7	590.1
117.5°	2726.1	2913.1	2726.1	2539.1	2492.4	2090.0	1553.4	1285.2	1142.5	857.3	643.4
120°	2591.5	2773.2	2591.5	2409.8	2364.4	1996.7	1506.5	1261.3	1130.9	870.1	674.4
122.5°	2460.4	2639.5	2460.4	2281.2	2236.4	1905.2	1463.7	1243.0	1124.7	888.3	711.0
125°	2273.3	2438.4	2273.3	2108.3	2067.0	1785.7	1410.7	1223.1	1119.8	913.0	757.9
127.5°	2105.0	2244.3	2105.0	1965.7	1930.9	1689.4	1367.5	1206.5	1116.9	937.6	803.2
130°	2005.9	2134.6	2005.9	1877.2	1845.1	1630.1	1343.4	1200.1	1118.6	955.6	833.4
132.5°	1915.9	2031.1	1915.9	1800.6	1771.9	1579.4	1322.8	1194.5	1119.8	970.2	858.1
135°	1792.7	1892.0	1792.7	1693.4	1668.5	1507.3	1292.4	1185.0	1118.7	986.2	886.8
137.5°	1693.7	1775.1	1693.7	1612.5	1592.1	1455.9	1274.2	1183.3	1125.6	1010.0	923.3
140°	1625.9	1701.9	1625.9	1550.0	1530.9	1413.3	1256.3	1177.8	1126.7	1024.5	948.0
142.5°	1569.8	1635.1	1569.8	1504.4	1488.0	1384.6	1246.7	1177.8	1130.8	1036.8	966.2
145°	1485.4	1534.9	1485.4	1435.9	1423.6	1339.0	1226.3	1169.9	1130.9	1052.7	994.1
147.5°	1420.7	1461.7	1420.7	1379.7	1369.5	1302.9	1214.2	1169.9	1138.6	1076.1	1029.1
150°	1380.0	1413.3	1380.0	1346.8	1338.5	1282.3	1207.3	1169.9	1142.6	1088.2	1047.4
152.5°	1345.2	1370.2	1345.2	1320.1	1313.8	1265.8	1201.9	1169.9	1145.3	1096.1	1059.3
155°	1305.1	1321.8	1305.1	1288.5	1284.4	1246.2	1195.3	1169.9	1151.1	1113.6	1085.5
157.5°	1273.5	1285.2	1273.5	1261.8	1259.0	1229.2	1189.6	1169.9	1157.0	1131.1	1111.8
160°	1254.7	1261.3	1254.7	1248.0	1246.2	1220.8	1186.9	1169.9	1159.6	1139.2	1123.8
162.5°	1242.2	1248.6	1242.2	1235.9	1234.3	1212.8	1184.2	1169.9	1162.4	1147.6	1136.5
165°	1224.4	1231.1	1224.4	1217.8	1216.0	1200.6	1180.1	1169.9	1166.5	1159.8	1154.8
167.5°	1211.5	1214.4	1211.5	1208.7	1208.0	1198.0	1184.5	1177.8	1174.9	1169.3	1165.1
170°	1208.0	1208.0	1208.0	1208.0	1208.0	1198.0	1184.5	1177.8	1177.6	1177.3	1177.0
172.5°	1198.6	1196.1	1198.6	1201.1	1201.7	1193.8	1183.1	1177.8	1177.8	1177.8	1177.8
175°	1192.9	1192.9	1192.9	1192.9	1192.9	1187.8	1181.1	1177.8	1179.4	1182.6	1185.0
177.5°	1187.8	1185.0	1187.8	1190.7	1191.4	1187.4	1182.1	1179.4	1180.7	1183.1	1185.0
180°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0



TEST NUMBER: P935012

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1374.6	1366.9	1366.9	1354.1	1349.0	1345.1	1338.7	1319.5	1314.3	1309.2	1316.9
5°	1386.2	1372.1	1361.8	1338.7	1319.5	1311.8	1287.4	1241.3	1210.5	1187.4	1174.5
7.5°	1388.7	1370.8	1351.5	1315.6	1269.5	1248.9	1174.5	1089.9	1066.9	1046.3	1033.5
10°	1386.2	1365.6	1338.7	1284.9	1175.9	1139.9	1065.6	1010.4	996.3	992.5	996.3
12.5°	1377.2	1357.9	1320.7	1231.0	1078.4	1054.1	1010.4	978.4	975.8	982.2	1016.9
15°	1361.8	1343.8	1300.3	1159.1	1024.5	1006.6	975.8	964.3	978.4	1023.3	1127.1
17.5°	1346.4	1325.9	1272.1	1088.7	983.5	970.7	948.9	972.0	1051.5	1111.7	1146.3
20°	1325.9	1301.5	1239.9	1037.4	954.0	942.5	932.2	1036.1	1096.3	1118.1	1137.4
22.5°	1301.5	1275.9	1196.3	1001.5	923.2	914.3	920.7	1072.0	1096.3	1111.7	1128.4
25°	1269.5	1247.7	1145.1	973.3	898.9	888.6	913.0	1068.1	1082.3	1086.1	1119.5
27.5°	1239.9	1211.7	1091.3	947.6	869.4	865.6	919.4	1051.5	1061.7	1065.6	1101.5
30°	1204.1	1161.7	1031.0	920.7	838.6	837.4	920.7	1031.0	1028.4	1038.7	1074.5
32.5°	1166.9	1087.4	963.0	887.4	809.2	807.8	911.7	1000.2	997.6	1011.7	1038.7
35°	1132.3	1029.7	870.6	848.8	772.0	773.2	889.9	964.3	965.6	978.4	995.1
37.5°	1096.3	979.7	769.4	806.6	736.0	736.0	860.4	931.0	928.4	932.2	955.3
40°	1054.1	901.4	679.6	751.4	702.7	698.8	824.6	895.0	886.0	884.8	916.8
42.5°	1009.2	815.6	612.9	678.4	664.2	659.1	781.0	851.4	834.8	838.6	879.6
45°	960.4	792.4	561.6	573.2	624.5	620.6	733.4	801.4	789.8	800.2	842.4
47.5°	911.7	746.3	545.0	475.7	582.2	580.9	680.9	752.7	746.3	756.6	801.4
50°	845.0	695.0	543.7	407.7	534.7	539.9	618.1	705.2	705.2	714.2	761.6
52.5°	759.2	632.2	493.7	369.3	479.5	494.9	562.9	664.2	666.8	675.8	718.1
55°	680.9	566.8	457.7	339.8	414.1	447.5	509.1	621.9	627.0	636.0	674.5
57.5°	609.1	471.9	450.1	305.2	353.9	385.9	461.7	580.9	583.4	591.1	628.3
60°	532.1	341.1	412.9	268.0	301.3	325.7	418.1	532.1	541.1	546.3	578.3
62.5°	444.9	247.5	374.5	242.3	275.7	280.8	382.1	486.0	497.5	501.4	520.6
65°	316.7	207.7	318.0	220.5	248.8	250.1	343.7	438.5	448.8	455.2	469.3
67.5°	214.1	169.3	242.3	200.0	228.3	229.5	306.5	383.5	397.5	402.7	411.7
70°	148.8	112.8	179.5	178.2	205.2	207.7	266.7	333.4	346.3	350.1	355.2
72.5°	109.0	91.0	148.8	160.3	180.8	183.4	225.7	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.7	234.7	237.2	238.5
77.5°	66.6	89.8	88.5	112.8	125.6	123.1	144.9	174.4	182.1	182.1	182.1
80°	50.0	70.6	66.6	80.8	92.3	89.8	103.8	124.4	127.0	129.5	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.1	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	20.6	14.3	7.9	14.3	20.6	22.3	35.0	51.9	60.4	53.7	40.2
92.5°	140.1	85.9	31.8	85.9	140.1	153.5	215.8	298.8	340.3	298.3	214.2
95°	274.3	175.3	76.4	175.3	274.3	299.0	531.0	840.2	994.9	887.8	673.6
97.5°	306.7	219.3	132.0	219.3	306.7	328.5	715.3	1230.9	1488.8	1421.1	1285.7
100°	333.4	254.1	174.9	254.1	333.4	353.1	782.3	1354.6	1640.7	1645.7	1655.5
102.5°	359.3	285.4	211.6	285.4	359.3	377.7	813.0	1393.4	1683.6	1769.8	1942.4
105°	398.7	336.1	273.6	336.1	398.7	414.3	835.8	1397.9	1678.8	1872.1	2258.8
107.5°	453.8	395.5	337.2	395.5	453.8	468.4	840.1	1335.6	1583.4	1853.1	2392.5
110°	485.5	432.8	380.1	432.8	485.5	498.6	833.7	1280.5	1503.9	1805.4	2408.4



TEST NUMBER: P935012

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	522.7	472.5	422.3	472.5	522.7	535.3	834.0	1232.4	1431.5	1740.1	2357.2
115°	578.6	532.2	485.9	532.2	578.6	590.1	841.7	1177.1	1344.8	1642.1	2236.7
117.5°	632.9	590.8	548.7	590.8	632.9	643.4	857.3	1142.5	1285.2	1553.4	2090.0
120°	664.5	624.9	585.4	624.9	664.5	674.4	870.1	1130.9	1261.3	1506.5	1996.7
122.5°	701.0	661.1	621.1	661.1	701.0	711.0	888.3	1124.7	1243.0	1463.7	1905.2
125°	748.8	712.4	676.0	712.4	748.8	757.9	913.0	1119.8	1223.1	1410.7	1785.7
127.5°	794.1	757.2	720.5	757.2	794.1	803.2	937.6	1116.9	1206.5	1367.5	1689.4
130°	823.5	783.9	744.3	783.9	823.5	833.4	955.6	1118.6	1200.1	1343.4	1630.1
132.5°	848.2	808.6	769.0	808.6	848.2	858.1	970.2	1119.8	1194.5	1322.8	1579.4
135°	877.8	841.7	805.6	841.7	877.8	886.8	986.2	1118.7	1185.0	1292.4	1507.3
137.5°	914.4	878.7	843.0	878.7	914.4	923.3	1010.0	1125.6	1183.3	1274.2	1455.9
140°	939.7	906.9	874.0	906.9	939.7	948.0	1024.5	1126.7	1177.8	1256.3	1413.3
142.5°	958.7	928.3	897.9	928.3	958.7	966.2	1036.8	1130.8	1177.8	1246.7	1384.6
145°	987.5	961.0	934.5	961.0	987.5	994.1	1052.7	1130.9	1169.9	1226.3	1339.0
147.5°	1022.6	996.8	971.0	996.8	1022.6	1029.1	1076.1	1138.6	1169.9	1214.2	1302.9
150°	1041.6	1018.2	994.9	1018.2	1041.6	1047.4	1088.2	1142.6	1169.9	1207.3	1282.3
152.5°	1054.9	1037.3	1019.6	1037.3	1054.9	1059.3	1096.1	1145.3	1169.9	1201.9	1265.8
155°	1082.3	1069.2	1056.1	1069.2	1082.3	1085.5	1113.6	1151.1	1169.9	1195.3	1246.2
157.5°	1108.7	1095.9	1083.1	1095.9	1108.7	1111.8	1131.1	1157.0	1169.9	1189.6	1229.2
160°	1121.3	1111.4	1101.5	1111.4	1121.3	1123.8	1139.2	1159.6	1169.9	1186.9	1220.8
162.5°	1134.7	1127.2	1119.8	1127.2	1134.7	1136.5	1147.6	1162.4	1169.9	1184.2	1212.8
165°	1153.0	1146.3	1139.6	1146.3	1153.0	1154.8	1159.8	1166.5	1169.9	1180.1	1200.6
167.5°	1164.3	1161.1	1157.9	1161.1	1164.3	1165.1	1169.3	1174.9	1177.8	1184.5	1198.0
170°	1176.3	1173.0	1169.9	1173.0	1176.3	1177.0	1177.3	1177.6	1177.8	1184.5	1198.0
172.5°	1177.6	1176.9	1176.3	1176.9	1177.6	1177.8	1177.8	1177.8	1177.8	1183.1	1193.8
175°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1182.6	1179.4	1177.8	1181.1	1187.8
177.5°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1183.1	1180.7	1179.4	1182.1	1187.4
180°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0



TEST NUMBER: P935012

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1307.9	1304.1	1309.2	1295.1	1309.2	1304.1	1307.9	1316.9	1309.2	1314.3	1319.5
5°	1147.7	1141.3	1120.7	1104.1	1120.7	1141.3	1147.7	1174.5	1187.4	1210.5	1241.3
7.5°	1025.8	1020.7	1015.6	1005.3	1015.6	1020.7	1025.8	1033.5	1046.3	1066.9	1089.9
10°	998.9	1000.2	1007.9	1006.6	1007.9	1000.2	998.9	996.3	992.5	996.3	1010.4
12.5°	1068.1	1079.7	1122.0	1119.5	1122.0	1079.7	1068.1	1016.9	982.2	975.8	978.4
15°	1147.7	1151.5	1160.5	1161.7	1160.5	1151.5	1147.7	1127.1	1023.3	978.4	964.3
17.5°	1155.3	1156.7	1163.1	1163.1	1163.1	1156.7	1155.3	1146.3	1111.7	1051.5	972.0
20°	1148.9	1151.5	1164.3	1166.9	1164.3	1151.5	1148.9	1137.4	1118.1	1096.3	1036.1
22.5°	1146.3	1151.5	1161.7	1160.5	1161.7	1151.5	1146.3	1128.4	1111.7	1096.3	1072.0
25°	1133.5	1133.5	1134.9	1136.1	1134.9	1133.5	1133.5	1119.5	1086.1	1082.3	1068.1
27.5°	1106.6	1109.2	1116.9	1115.6	1116.9	1109.2	1106.6	1101.5	1065.6	1061.7	1051.5
30°	1082.3	1079.7	1073.3	1068.1	1073.3	1079.7	1082.3	1074.5	1038.7	1028.4	1031.0
32.5°	1041.2	1034.8	1028.4	1024.5	1028.4	1034.8	1041.2	1038.7	1011.7	997.6	1000.2
35°	992.5	993.8	992.5	988.6	992.5	993.8	992.5	995.1	978.4	965.6	964.3
37.5°	957.9	960.4	959.2	954.0	959.2	960.4	957.9	955.3	932.2	928.4	931.0
40°	922.0	923.2	922.0	918.1	922.0	923.2	922.0	916.8	884.8	886.0	895.0
42.5°	887.4	886.0	882.2	879.6	882.2	886.0	887.4	879.6	838.6	834.8	851.4
45°	847.6	848.8	841.2	837.4	841.2	848.8	847.6	842.4	800.2	789.8	801.4
47.5°	807.8	807.8	801.4	797.6	801.4	807.8	807.8	801.4	756.6	746.3	752.7
50°	765.6	764.2	755.2	754.0	755.2	764.2	765.6	761.6	714.2	705.2	705.2
52.5°	716.8	716.8	718.1	720.6	718.1	716.8	716.8	718.1	675.8	666.8	664.2
55°	674.5	675.8	684.8	687.3	684.8	675.8	674.5	674.5	636.0	627.0	621.9
57.5°	630.9	630.9	637.3	637.3	637.3	630.9	630.9	628.3	591.1	583.4	580.9
60°	580.9	583.4	588.6	587.3	588.6	583.4	580.9	578.3	546.3	541.1	532.1
62.5°	528.3	530.9	532.1	529.6	532.1	530.9	528.3	520.6	501.4	497.5	486.0
65°	473.1	475.7	477.0	474.5	477.0	475.7	473.1	469.3	455.2	448.8	438.5
67.5°	416.7	415.5	414.1	419.3	414.1	415.5	416.7	411.7	402.7	397.5	383.5
70°	359.1	359.1	357.7	360.3	357.7	359.1	359.1	355.2	350.1	346.3	333.4
72.5°	297.5	296.2	301.3	297.5	301.3	296.2	297.5	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.1	237.2	239.8	237.2	238.5	237.2	234.7	225.7
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.1	182.1	182.1	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.5	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	40.2	53.7	60.4	51.9
92.5°	151.1	145.1	121.1	97.0	121.1	145.1	151.1	214.2	298.3	340.3	298.8
95°	513.0	494.8	422.0	349.1	422.0	494.8	513.0	673.6	887.8	994.9	840.2
97.5°	1184.2	1149.6	1011.0	872.4	1011.0	1149.6	1184.2	1285.7	1421.1	1488.8	1230.9
100°	1663.0	1621.7	1456.7	1291.6	1456.7	1621.7	1663.0	1655.5	1645.7	1640.7	1354.6
102.5°	2071.7	2036.4	1895.0	1753.6	1895.0	2036.4	2071.7	1942.4	1769.8	1683.6	1393.4
105°	2548.9	2529.9	2453.9	2377.9	2453.9	2529.9	2548.9	2258.8	1872.1	1678.8	1397.9
107.5°	2797.0	2801.6	2820.0	2838.4	2820.0	2801.6	2797.0	2392.5	1853.1	1583.4	1335.6
110°	2860.6	2880.4	2959.6	3038.7	2959.6	2880.4	2860.6	2408.4	1805.4	1503.9	1280.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2820.1	2850.5	2972.0	3093.6	2972.0	2850.5	2820.1	2357.2	1740.1	1431.5	1232.4
115°	2682.5	2724.7	2893.2	3061.9	2893.2	2724.7	2682.5	2236.7	1642.1	1344.8	1177.1
117.5°	2492.4	2539.1	2726.1	2913.1	2726.1	2539.1	2492.4	2090.0	1553.4	1285.2	1142.5
120°	2364.4	2409.8	2591.5	2773.2	2591.5	2409.8	2364.4	1996.7	1506.5	1261.3	1130.9
122.5°	2236.4	2281.2	2460.4	2639.5	2460.4	2281.2	2236.4	1905.2	1463.7	1243.0	1124.7
125°	2067.0	2108.3	2273.3	2438.4	2273.3	2108.3	2067.0	1785.7	1410.7	1223.1	1119.8
127.5°	1930.9	1965.7	2105.0	2244.3	2105.0	1965.7	1930.9	1689.4	1367.5	1206.5	1116.9
130°	1845.1	1877.2	2005.9	2134.6	2005.9	1877.2	1845.1	1630.1	1343.4	1200.1	1118.6
132.5°	1771.9	1800.6	1915.9	2031.1	1915.9	1800.6	1771.9	1579.4	1322.8	1194.5	1119.8
135°	1668.5	1693.4	1792.7	1892.0	1792.7	1693.4	1668.5	1507.3	1292.4	1185.0	1118.7
137.5°	1592.1	1612.5	1693.7	1775.1	1693.7	1612.5	1592.1	1455.9	1274.2	1183.3	1125.6
140°	1530.9	1550.0	1625.9	1701.9	1625.9	1550.0	1530.9	1413.3	1256.3	1177.8	1126.7
142.5°	1488.0	1504.4	1569.8	1635.1	1569.8	1504.4	1488.0	1384.6	1246.7	1177.8	1130.8
145°	1423.6	1435.9	1485.4	1534.9	1485.4	1435.9	1423.6	1339.0	1226.3	1169.9	1130.9
147.5°	1369.5	1379.7	1420.7	1461.7	1420.7	1379.7	1369.5	1302.9	1214.2	1169.9	1138.6
150°	1338.5	1346.8	1380.0	1413.3	1380.0	1346.8	1338.5	1282.3	1207.3	1169.9	1142.6
152.5°	1313.8	1320.1	1345.2	1370.2	1345.2	1320.1	1313.8	1265.8	1201.9	1169.9	1145.3
155°	1284.4	1288.5	1305.1	1321.8	1305.1	1288.5	1284.4	1246.2	1195.3	1169.9	1151.1
157.5°	1259.0	1261.8	1273.5	1285.2	1273.5	1261.8	1259.0	1229.2	1189.6	1169.9	1157.0
160°	1246.2	1248.0	1254.7	1261.3	1254.7	1248.0	1246.2	1220.8	1186.9	1169.9	1159.6
162.5°	1234.3	1235.9	1242.2	1248.6	1242.2	1235.9	1234.3	1212.8	1184.2	1169.9	1162.4
165°	1216.0	1217.8	1224.4	1231.1	1224.4	1217.8	1216.0	1200.6	1180.1	1169.9	1166.5
167.5°	1208.0	1208.7	1211.5	1214.4	1211.5	1208.7	1208.0	1198.0	1184.5	1177.8	1174.9
170°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1198.0	1184.5	1177.8	1177.6
172.5°	1201.7	1201.1	1198.6	1196.1	1198.6	1201.1	1201.7	1193.8	1183.1	1177.8	1177.8
175°	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1187.8	1181.1	1177.8	1179.4
177.5°	1191.4	1190.7	1187.8	1185.0	1187.8	1190.7	1191.4	1187.4	1182.1	1179.4	1180.7
180°	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0	1185.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1338.7	1345.1	1349.0	1354.1	1366.9
5°	1287.4	1311.8	1319.5	1338.7	1361.8
7.5°	1174.5	1248.9	1269.5	1315.6	1351.5
10°	1065.6	1139.9	1175.9	1284.9	1338.7
12.5°	1010.4	1054.1	1078.4	1231.0	1320.7
15°	975.8	1006.6	1024.5	1159.1	1300.3
17.5°	948.9	970.7	983.5	1088.7	1272.1
20°	932.2	942.5	954.0	1037.4	1239.9
22.5°	920.7	914.3	923.2	1001.5	1196.3
25°	913.0	888.6	898.9	973.3	1145.1
27.5°	919.4	865.6	869.4	947.6	1091.3
30°	920.7	837.4	838.6	920.7	1031.0
32.5°	911.7	807.8	809.2	887.4	963.0
35°	889.9	773.2	772.0	848.8	870.6
37.5°	860.4	736.0	736.0	806.6	769.4
40°	824.6	698.8	702.7	751.4	679.6
42.5°	781.0	659.1	664.2	678.4	612.9
45°	733.4	620.6	624.5	573.2	561.6
47.5°	680.9	580.9	582.2	475.7	545.0
50°	618.1	539.9	534.7	407.7	543.7
52.5°	562.9	494.9	479.5	369.3	493.7
55°	509.1	447.5	414.1	339.8	457.7
57.5°	461.7	385.9	353.9	305.2	450.1
60°	418.1	325.7	301.3	268.0	412.9
62.5°	382.1	280.8	275.7	242.3	374.5
65°	343.7	250.1	248.8	220.5	318.0
67.5°	306.5	229.5	228.3	200.0	242.3
70°	266.7	207.7	205.2	178.2	179.5
72.5°	225.7	183.4	180.8	160.3	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	144.9	123.1	125.6	112.8	88.5
80°	103.8	89.8	92.3	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	35.0	22.3	20.6	14.3	7.9
92.5°	215.8	153.5	140.1	85.9	31.8
95°	531.0	299.0	274.3	175.3	76.4
97.5°	715.3	328.5	306.7	219.3	132.0
100°	782.3	353.1	333.4	254.1	174.9
102.5°	813.0	377.7	359.3	285.4	211.6
105°	835.8	414.3	398.7	336.1	273.6
107.5°	840.1	468.4	453.8	395.5	337.2
110°	833.7	498.6	485.5	432.8	380.1



TEST NUMBER: P935012

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	834.0	535.3	522.7	472.5	422.3
115°	841.7	590.1	578.6	532.2	485.9
117.5°	857.3	643.4	632.9	590.8	548.7
120°	870.1	674.4	664.5	624.9	585.4
122.5°	888.3	711.0	701.0	661.1	621.1
125°	913.0	757.9	748.8	712.4	676.0
127.5°	937.6	803.2	794.1	757.2	720.5
130°	955.6	833.4	823.5	783.9	744.3
132.5°	970.2	858.1	848.2	808.6	769.0
135°	986.2	886.8	877.8	841.7	805.6
137.5°	1010.0	923.3	914.4	878.7	843.0
140°	1024.5	948.0	939.7	906.9	874.0
142.5°	1036.8	966.2	958.7	928.3	897.9
145°	1052.7	994.1	987.5	961.0	934.5
147.5°	1076.1	1029.1	1022.6	996.8	971.0
150°	1088.2	1047.4	1041.6	1018.2	994.9
152.5°	1096.1	1059.3	1054.9	1037.3	1019.6
155°	1113.6	1085.5	1082.3	1069.2	1056.1
157.5°	1131.1	1111.8	1108.7	1095.9	1083.1
160°	1139.2	1123.8	1121.3	1111.4	1101.5
162.5°	1147.6	1136.5	1134.7	1127.2	1119.8
165°	1159.8	1154.8	1153.0	1146.3	1139.6
167.5°	1169.3	1165.1	1164.3	1161.1	1157.9
170°	1177.3	1177.0	1176.3	1173.0	1169.9
172.5°	1177.8	1177.8	1177.6	1176.9	1176.3
175°	1182.6	1185.0	1185.0	1185.0	1185.0
177.5°	1183.1	1185.0	1185.0	1185.0	1185.0
180°	1185.0	1185.0	1185.0	1185.0	1185.0



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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	9.17	9.89	10.27	10.99	12.50	12.01	12.73	13.11	13.82	15.34
	3H	9.64	10.28	10.75	11.39	12.92	13.35	13.99	14.46	15.09	16.62
	4H	9.82	10.43	10.94	11.54	13.07	13.79	14.39	14.91	15.50	17.04
	6H	9.93	10.49	11.06	11.60	13.15	14.06	14.62	15.19	15.73	17.28
	8H	9.93	10.46	11.06	11.59	13.13	14.14	14.67	15.27	15.79	17.34
	12H	9.90	10.40	11.03	11.52	13.09	14.17	14.68	15.31	15.80	17.36
4H	2H	10.19	10.80	11.32	11.90	13.44	12.40	13.01	13.53	14.12	15.65
	3H	11.20	11.71	12.34	12.84	14.39	13.89	14.40	15.03	15.54	17.08
	4H	11.47	11.94	12.61	13.06	14.63	14.42	14.88	15.56	16.01	17.58
	6H	11.59	11.99	12.73	13.13	14.69	14.78	15.18	15.92	16.32	17.88
	8H	11.59	11.96	12.73	13.10	14.68	14.88	15.25	16.02	16.39	17.97
	12H	11.55	11.89	12.71	13.04	14.62	14.93	15.27	16.09	16.42	18.00
8H	4H	11.91	12.29	13.06	13.42	15.00	14.53	14.90	15.67	16.04	17.62
	6H	12.17	12.48	13.33	13.66	15.23	14.96	15.27	16.13	16.45	18.02
	8H	12.21	12.48	13.38	13.64	15.23	15.11	15.38	16.28	16.54	18.14
	12H	12.19	12.42	13.36	13.58	15.21	15.21	15.44	16.38	16.60	18.23
12H	4H	11.91	12.25	13.07	13.40	14.98	14.49	14.83	15.65	15.98	17.56
	6H	12.23	12.50	13.40	13.66	15.25	14.96	15.23	16.13	16.39	17.98
	8H	12.29	12.53	13.46	13.68	15.31	15.11	15.35	16.29	16.51	18.13