

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: P935706

Luminaire Tested: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

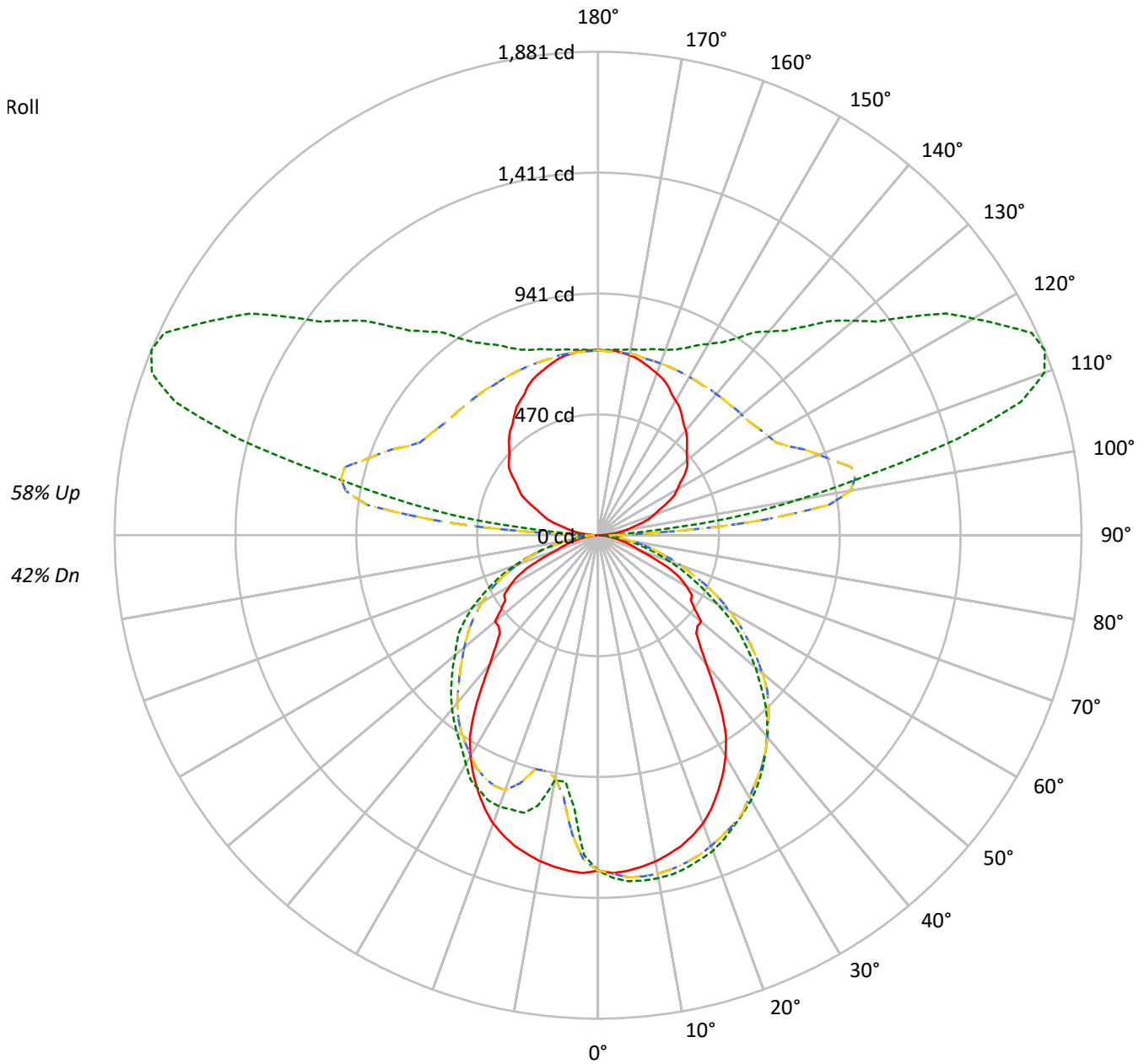
Test Method: LM-79-2019  
Report Number: P935706  
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8055.8 lumens  
Efficiency: N/A  
Efficacy: 125.1 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): 64.4  
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

TEST NUMBER: P935706  
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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

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

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10627 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	1.5
10°-20°	334.3	4.1
20°-30°	516.8	6.4
30°-40°	616.9	7.7
40°-50°	620.5	7.7
50°-60°	539.9	6.7
60°-70°	382.8	4.8
70°-80°	202.5	2.5
80°-90°	53.2	0.7
90°-100°	351.2	4.4
100°-110°	923.4	11.5
110°-120°	957.5	11.9
120°-130°	768.0	9.5
130°-140°	602.6	7.5
140°-150°	462.5	5.7
150°-160°	333.1	4.1
160°-170°	203.8	2.5
170°-180°	68.9	0.9
0°-30°	968.8	12.0
0°-40°	1585.7	19.7
0°-60°	2746.2	34.1
0°-90°	3384.8	42.0
90°-120°	2232.1	27.7
90°-150°	4065.2	50.5
90°-180°	4671.0	58.0
0°-180°	8055.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	5	18	5	18	5	5
95°	46	212	46	212	46	52
105°	166	1446	166	1446	166	176
115°	295	1862	295	1862	295	292
125°	411	1483	411	1483	411	365
135°	490	1150	490	1150	490	379
145°	568	933	568	933	568	356
155°	642	804	642	804	642	295
165°	693	749	693	749	693	196
175°	721	725	721	725	721	68
180°	721	721	721	721	721	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	4.9	8.7	12.6	13.5	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.2	85.1	93.3	131.2	181.8	207.0	181.4	130.3	91.9	88.3
95°	46.4	106.6	166.8	181.8	322.9	510.9	605.0	539.9	409.7	312.0	300.8
97.5°	80.2	133.3	186.4	199.7	434.9	748.4	905.2	864.0	781.8	720.0	699.0
100°	106.4	154.6	202.7	214.7	475.7	823.6	997.6	1000.6	1006.7	1011.1	986.0
102.5°	128.6	173.5	218.5	229.7	494.4	847.3	1023.8	1076.2	1181.1	1259.8	1238.3
105°	166.3	204.5	242.5	252.0	508.3	850.0	1020.9	1138.5	1373.5	1549.9	1538.3
107.5°	205.0	240.5	276.0	284.9	510.9	812.2	962.9	1126.9	1454.8	1700.7	1703.5
110°	231.2	263.2	295.1	303.2	507.0	778.7	914.5	1097.8	1464.5	1739.5	1751.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	256.8	287.3	317.7	325.4	507.1	749.3	870.5	1058.1	1433.4	1714.8	1733.3
115°	295.4	323.6	351.8	358.8	511.8	715.7	817.7	998.4	1360.0	1631.1	1656.7
117.5°	333.7	359.3	384.9	391.3	521.4	694.8	781.5	944.6	1270.8	1515.5	1543.9
120°	355.9	380.0	404.1	410.1	529.1	687.7	767.0	916.1	1214.1	1437.7	1465.4
122.5°	377.7	402.0	426.3	432.3	540.2	684.0	755.9	890.1	1158.5	1359.8	1387.1
125°	411.1	433.2	455.3	460.8	555.2	680.9	743.7	857.8	1085.8	1256.8	1281.9
127.5°	438.1	460.5	482.8	488.4	570.1	679.1	733.6	831.4	1027.3	1174.1	1195.3
130°	452.6	476.7	500.8	506.8	581.1	680.2	729.7	816.9	991.2	1121.9	1141.4
132.5°	467.7	491.8	515.8	521.8	590.0	680.9	726.4	804.4	960.4	1077.5	1094.9
135°	489.9	511.8	533.7	539.2	599.6	680.2	720.6	786.0	916.6	1014.6	1029.7
137.5°	512.6	534.2	556.0	561.4	614.1	684.4	719.6	774.8	885.2	968.1	980.4
140°	531.4	551.4	571.4	576.5	623.1	685.2	716.2	763.9	859.4	930.9	942.5
142.5°	545.9	564.4	582.9	587.6	630.4	687.6	716.2	758.1	841.9	904.8	914.7
145°	568.2	584.3	600.5	604.5	640.1	687.6	711.3	745.6	814.2	865.6	873.2
147.5°	590.5	606.2	621.9	625.8	654.3	692.3	711.3	738.3	792.3	832.8	839.0
150°	605.0	619.1	633.3	636.9	661.7	694.8	711.3	734.1	779.7	813.9	818.9
152.5°	620.0	630.7	641.5	644.2	666.6	696.4	711.3	730.8	769.7	798.9	802.7
155°	642.2	650.2	658.1	660.1	677.2	699.9	711.3	726.8	757.8	781.0	783.5
157.5°	658.7	666.4	674.1	676.0	687.8	703.5	711.3	723.4	747.5	765.5	767.3
160°	669.8	675.7	681.8	683.3	692.7	705.1	711.3	721.6	742.2	757.8	758.8
162.5°	680.9	685.4	689.9	691.1	697.8	706.9	711.3	720.0	737.5	750.6	751.5
165°	692.9	697.0	701.2	702.2	705.3	709.3	711.3	717.6	730.0	739.4	740.4
167.5°	704.1	706.0	708.0	708.4	711.1	714.5	716.2	720.3	728.4	734.6	735.1
170°	711.3	713.3	715.3	715.7	715.9	716.1	716.2	720.3	728.4	734.6	734.6
172.5°	715.3	715.6	716.1	716.2	716.2	716.2	716.2	719.4	725.8	730.7	730.3
175°	720.6	720.6	720.6	720.6	719.1	717.1	716.2	718.2	722.3	725.3	725.3
177.5°	720.6	720.6	720.6	720.6	719.5	717.9	717.1	718.7	722.0	724.4	723.9
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6	21.3	13.5
92.5°	73.6	59.0	73.6	88.3	91.9	130.3	181.4	207.0	181.8	131.2	93.3
95°	256.6	212.3	256.6	300.8	312.0	409.7	539.9	605.0	510.9	322.9	181.8
97.5°	614.8	530.5	614.8	699.0	720.0	781.8	864.0	905.2	748.4	434.9	199.7
100°	885.7	785.3	885.7	986.0	1011.1	1006.7	1000.6	997.6	823.6	475.7	214.7
102.5°	1152.3	1066.3	1152.3	1238.3	1259.8	1181.1	1076.2	1023.8	847.3	494.4	229.7
105°	1492.2	1445.9	1492.2	1538.3	1549.9	1373.5	1138.5	1020.9	850.0	508.3	252.0
107.5°	1714.7	1725.9	1714.7	1703.5	1700.7	1454.8	1126.9	962.9	812.2	510.9	284.9
110°	1799.6	1847.7	1799.6	1751.5	1739.5	1464.5	1097.8	914.5	778.7	507.0	303.2





TEST NUMBER: P935706

CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1807.2	1881.2	1807.2	1733.3	1714.8	1433.4	1058.1	870.5	749.3	507.1	325.4
115°	1759.3	1861.8	1759.3	1656.7	1631.1	1360.0	998.4	817.7	715.7	511.8	358.8
117.5°	1657.7	1771.3	1657.7	1543.9	1515.5	1270.8	944.6	781.5	694.8	521.4	391.3
120°	1575.8	1686.2	1575.8	1465.4	1437.7	1214.1	916.1	767.0	687.7	529.1	410.1
122.5°	1496.0	1605.0	1496.0	1387.1	1359.8	1158.5	890.1	755.9	684.0	540.2	432.3
125°	1382.2	1482.6	1382.2	1281.9	1256.8	1085.8	857.8	743.7	680.9	555.2	460.8
127.5°	1280.0	1364.7	1280.0	1195.3	1174.1	1027.3	831.4	733.6	679.1	570.1	488.4
130°	1219.7	1298.0	1219.7	1141.4	1121.9	991.2	816.9	729.7	680.2	581.1	506.8
132.5°	1165.0	1235.0	1165.0	1094.9	1077.5	960.4	804.4	726.4	680.9	590.0	521.8
135°	1090.1	1150.4	1090.1	1029.7	1014.6	916.6	786.0	720.6	680.2	599.6	539.2
137.5°	1029.9	1079.3	1029.9	980.4	968.1	885.2	774.8	719.6	684.4	614.1	561.4
140°	988.6	1034.9	988.6	942.5	930.9	859.4	763.9	716.2	685.2	623.1	576.5
142.5°	954.5	994.2	954.5	914.7	904.8	841.9	758.1	716.2	687.6	630.4	587.6
145°	903.3	933.3	903.3	873.2	865.6	814.2	745.6	711.3	687.6	640.1	604.5
147.5°	863.9	888.8	863.9	839.0	832.8	792.3	738.3	711.3	692.3	654.3	625.8
150°	839.2	859.4	839.2	818.9	813.9	779.7	734.1	711.3	694.8	661.7	636.9
152.5°	817.9	833.2	817.9	802.7	798.9	769.7	730.8	711.3	696.4	666.6	644.2
155°	793.6	803.7	793.6	783.5	781.0	757.8	726.8	711.3	699.9	677.2	660.1
157.5°	774.4	781.5	774.4	767.3	765.5	747.5	723.4	711.3	703.5	687.8	676.0
160°	762.9	767.0	762.9	758.8	757.8	742.2	721.6	711.3	705.1	692.7	683.3
162.5°	755.4	759.2	755.4	751.5	750.6	737.5	720.0	711.3	706.9	697.8	691.1
165°	744.5	748.6	744.5	740.4	739.4	730.0	717.6	711.3	709.3	705.3	702.2
167.5°	736.7	738.4	736.7	735.1	734.6	728.4	720.3	716.2	714.5	711.1	708.4
170°	734.6	734.6	734.6	734.6	734.6	728.4	720.3	716.2	716.1	715.9	715.7
172.5°	728.8	727.3	728.8	730.3	730.7	725.8	719.4	716.2	716.2	716.2	716.2
175°	725.3	725.3	725.3	725.3	725.3	722.3	718.2	716.2	717.1	719.1	720.6
177.5°	722.3	720.6	722.3	723.9	724.4	722.0	718.7	717.1	717.9	719.5	720.6
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935706

CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	12.6	8.7	4.9	8.7	12.6	13.5	21.3	31.6	36.7	32.6	24.5
92.5°	85.1	52.2	19.3	52.2	85.1	93.3	131.2	181.8	207.0	181.4	130.3
95°	166.8	106.6	46.4	106.6	166.8	181.8	322.9	510.9	605.0	539.9	409.7
97.5°	186.4	133.3	80.2	133.3	186.4	199.7	434.9	748.4	905.2	864.0	781.8
100°	202.7	154.6	106.4	154.6	202.7	214.7	475.7	823.6	997.6	1000.6	1006.7
102.5°	218.5	173.5	128.6	173.5	218.5	229.7	494.4	847.3	1023.8	1076.2	1181.1
105°	242.5	204.5	166.3	204.5	242.5	252.0	508.3	850.0	1020.9	1138.5	1373.5
107.5°	276.0	240.5	205.0	240.5	276.0	284.9	510.9	812.2	962.9	1126.9	1454.8
110°	295.1	263.2	231.2	263.2	295.1	303.2	507.0	778.7	914.5	1097.8	1464.5



TEST NUMBER: P935706

CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	317.7	287.3	256.8	287.3	317.7	325.4	507.1	749.3	870.5	1058.1	1433.4
115°	351.8	323.6	295.4	323.6	351.8	358.8	511.8	715.7	817.7	998.4	1360.0
117.5°	384.9	359.3	333.7	359.3	384.9	391.3	521.4	694.8	781.5	944.6	1270.8
120°	404.1	380.0	355.9	380.0	404.1	410.1	529.1	687.7	767.0	916.1	1214.1
122.5°	426.3	402.0	377.7	402.0	426.3	432.3	540.2	684.0	755.9	890.1	1158.5
125°	455.3	433.2	411.1	433.2	455.3	460.8	555.2	680.9	743.7	857.8	1085.8
127.5°	482.8	460.5	438.1	460.5	482.8	488.4	570.1	679.1	733.6	831.4	1027.3
130°	500.8	476.7	452.6	476.7	500.8	506.8	581.1	680.2	729.7	816.9	991.2
132.5°	515.8	491.8	467.7	491.8	515.8	521.8	590.0	680.9	726.4	804.4	960.4
135°	533.7	511.8	489.9	511.8	533.7	539.2	599.6	680.2	720.6	786.0	916.6
137.5°	556.0	534.2	512.6	534.2	556.0	561.4	614.1	684.4	719.6	774.8	885.2
140°	571.4	551.4	531.4	551.4	571.4	576.5	623.1	685.2	716.2	763.9	859.4
142.5°	582.9	564.4	545.9	564.4	582.9	587.6	630.4	687.6	716.2	758.1	841.9
145°	600.5	584.3	568.2	584.3	600.5	604.5	640.1	687.6	711.3	745.6	814.2
147.5°	621.9	606.2	590.5	606.2	621.9	625.8	654.3	692.3	711.3	738.3	792.3
150°	633.3	619.1	605.0	619.1	633.3	636.9	661.7	694.8	711.3	734.1	779.7
152.5°	641.5	630.7	620.0	630.7	641.5	644.2	666.6	696.4	711.3	730.8	769.7
155°	658.1	650.2	642.2	650.2	658.1	660.1	677.2	699.9	711.3	726.8	757.8
157.5°	674.1	666.4	658.7	666.4	674.1	676.0	687.8	703.5	711.3	723.4	747.5
160°	681.8	675.7	669.8	675.7	681.8	683.3	692.7	705.1	711.3	721.6	742.2
162.5°	689.9	685.4	680.9	685.4	689.9	691.1	697.8	706.9	711.3	720.0	737.5
165°	701.2	697.0	692.9	697.0	701.2	702.2	705.3	709.3	711.3	717.6	730.0
167.5°	708.0	706.0	704.1	706.0	708.0	708.4	711.1	714.5	716.2	720.3	728.4
170°	715.3	713.3	711.3	713.3	715.3	715.7	715.9	716.1	716.2	720.3	728.4
172.5°	716.1	715.6	715.3	715.6	716.1	716.2	716.2	716.2	716.2	719.4	725.8
175°	720.6	720.6	720.6	720.6	720.6	720.6	719.1	717.1	716.2	718.2	722.3
177.5°	720.6	720.6	720.6	720.6	720.6	720.6	719.5	717.9	717.1	718.7	722.0
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935706  
 CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6
92.5°	91.9	88.3	73.6	59.0	73.6	88.3	91.9	130.3	181.4	207.0	181.8
95°	312.0	300.8	256.6	212.3	256.6	300.8	312.0	409.7	539.9	605.0	510.9
97.5°	720.0	699.0	614.8	530.5	614.8	699.0	720.0	781.8	864.0	905.2	748.4
100°	1011.1	986.0	885.7	785.3	885.7	986.0	1011.1	1006.7	1000.6	997.6	823.6
102.5°	1259.8	1238.3	1152.3	1066.3	1152.3	1238.3	1259.8	1181.1	1076.2	1023.8	847.3
105°	1549.9	1538.3	1492.2	1445.9	1492.2	1538.3	1549.9	1373.5	1138.5	1020.9	850.0
107.5°	1700.7	1703.5	1714.7	1725.9	1714.7	1703.5	1700.7	1454.8	1126.9	962.9	812.2
110°	1739.5	1751.5	1799.6	1847.7	1799.6	1751.5	1739.5	1464.5	1097.8	914.5	778.7



TEST NUMBER: P935706

CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1714.8	1733.3	1807.2	1881.2	1807.2	1733.3	1714.8	1433.4	1058.1	870.5	749.3
115°	1631.1	1656.7	1759.3	1861.8	1759.3	1656.7	1631.1	1360.0	998.4	817.7	715.7
117.5°	1515.5	1543.9	1657.7	1771.3	1657.7	1543.9	1515.5	1270.8	944.6	781.5	694.8
120°	1437.7	1465.4	1575.8	1686.2	1575.8	1465.4	1437.7	1214.1	916.1	767.0	687.7
122.5°	1359.8	1387.1	1496.0	1605.0	1496.0	1387.1	1359.8	1158.5	890.1	755.9	684.0
125°	1256.8	1281.9	1382.2	1482.6	1382.2	1281.9	1256.8	1085.8	857.8	743.7	680.9
127.5°	1174.1	1195.3	1280.0	1364.7	1280.0	1195.3	1174.1	1027.3	831.4	733.6	679.1
130°	1121.9	1141.4	1219.7	1298.0	1219.7	1141.4	1121.9	991.2	816.9	729.7	680.2
132.5°	1077.5	1094.9	1165.0	1235.0	1165.0	1094.9	1077.5	960.4	804.4	726.4	680.9
135°	1014.6	1029.7	1090.1	1150.4	1090.1	1029.7	1014.6	916.6	786.0	720.6	680.2
137.5°	968.1	980.4	1029.9	1079.3	1029.9	980.4	968.1	885.2	774.8	719.6	684.4
140°	930.9	942.5	988.6	1034.9	988.6	942.5	930.9	859.4	763.9	716.2	685.2
142.5°	904.8	914.7	954.5	994.2	954.5	914.7	904.8	841.9	758.1	716.2	687.6
145°	865.6	873.2	903.3	933.3	903.3	873.2	865.6	814.2	745.6	711.3	687.6
147.5°	832.8	839.0	863.9	888.8	863.9	839.0	832.8	792.3	738.3	711.3	692.3
150°	813.9	818.9	839.2	859.4	839.2	818.9	813.9	779.7	734.1	711.3	694.8
152.5°	798.9	802.7	817.9	833.2	817.9	802.7	798.9	769.7	730.8	711.3	696.4
155°	781.0	783.5	793.6	803.7	793.6	783.5	781.0	757.8	726.8	711.3	699.9
157.5°	765.5	767.3	774.4	781.5	774.4	767.3	765.5	747.5	723.4	711.3	703.5
160°	757.8	758.8	762.9	767.0	762.9	758.8	757.8	742.2	721.6	711.3	705.1
162.5°	750.6	751.5	755.4	759.2	755.4	751.5	750.6	737.5	720.0	711.3	706.9
165°	739.4	740.4	744.5	748.6	744.5	740.4	739.4	730.0	717.6	711.3	709.3
167.5°	734.6	735.1	736.7	738.4	736.7	735.1	734.6	728.4	720.3	716.2	714.5
170°	734.6	734.6	734.6	734.6	734.6	734.6	734.6	728.4	720.3	716.2	716.1
172.5°	730.7	730.3	728.8	727.3	728.8	730.3	730.7	725.8	719.4	716.2	716.2
175°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	722.3	718.2	716.2	717.1
177.5°	724.4	723.9	722.3	720.6	722.3	723.9	724.4	722.0	718.7	717.1	717.9
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935706  
 CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	21.3	13.5	12.6	8.7	4.9
92.5°	131.2	93.3	85.1	52.2	19.3
95°	322.9	181.8	166.8	106.6	46.4
97.5°	434.9	199.7	186.4	133.3	80.2
100°	475.7	214.7	202.7	154.6	106.4
102.5°	494.4	229.7	218.5	173.5	128.6
105°	508.3	252.0	242.5	204.5	166.3
107.5°	510.9	284.9	276.0	240.5	205.0
110°	507.0	303.2	295.1	263.2	231.2



TEST NUMBER: P935706

CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	507.1	325.4	317.7	287.3	256.8
115°	511.8	358.8	351.8	323.6	295.4
117.5°	521.4	391.3	384.9	359.3	333.7
120°	529.1	410.1	404.1	380.0	355.9
122.5°	540.2	432.3	426.3	402.0	377.7
125°	555.2	460.8	455.3	433.2	411.1
127.5°	570.1	488.4	482.8	460.5	438.1
130°	581.1	506.8	500.8	476.7	452.6
132.5°	590.0	521.8	515.8	491.8	467.7
135°	599.6	539.2	533.7	511.8	489.9
137.5°	614.1	561.4	556.0	534.2	512.6
140°	623.1	576.5	571.4	551.4	531.4
142.5°	630.4	587.6	582.9	564.4	545.9
145°	640.1	604.5	600.5	584.3	568.2
147.5°	654.3	625.8	621.9	606.2	590.5
150°	661.7	636.9	633.3	619.1	605.0
152.5°	666.6	644.2	641.5	630.7	620.0
155°	677.2	660.1	658.1	650.2	642.2
157.5°	687.8	676.0	674.1	666.4	658.7
160°	692.7	683.3	681.8	675.7	669.8
162.5°	697.8	691.1	689.9	685.4	680.9
165°	705.3	702.2	701.2	697.0	692.9
167.5°	711.1	708.4	708.0	706.0	704.1
170°	715.9	715.7	715.3	713.3	711.3
172.5°	716.2	716.2	716.1	715.6	715.3
175°	719.1	720.6	720.6	720.6	720.6
177.5°	719.5	720.6	720.6	720.6	720.6
180°	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935706  
 CATALOG NUMBER: SQ4-FA-125U-100D-B50-1D-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	12.67	13.46	13.69	14.50	15.88	15.47	16.26	16.49	17.29	18.67
	3H	13.14	13.85	14.18	14.89	16.29	16.80	17.51	17.83	18.55	19.95
	4H	13.33	14.01	14.38	15.05	16.46	17.23	17.91	18.28	18.95	20.36
	6H	13.45	14.07	14.50	15.11	16.53	17.51	18.13	18.56	19.17	20.59
	8H	13.45	14.04	14.51	15.10	16.51	17.58	18.17	18.64	19.23	20.64
	12H	13.42	13.98	14.48	15.03	16.47	17.61	18.17	18.67	19.22	20.66
4H	2H	13.69	14.36	14.74	15.40	16.81	15.87	16.54	16.92	17.59	19.00
	3H	14.71	15.27	15.77	16.34	17.76	17.36	17.92	18.42	18.99	20.41
	4H	14.98	15.50	16.05	16.56	18.00	17.88	18.39	18.95	19.45	20.90
	6H	15.10	15.54	16.18	16.63	18.07	18.23	18.67	19.31	19.76	21.20
	8H	15.11	15.52	16.18	16.60	18.05	18.33	18.75	19.41	19.82	21.28
	12H	15.07	15.44	16.16	16.53	17.99	18.38	18.75	19.48	19.85	21.30
8H	4H	15.42	15.84	16.50	16.91	18.37	18.00	18.41	19.08	19.49	20.94
	6H	15.68	16.02	16.78	17.14	18.59	18.42	18.77	19.52	19.88	21.33
	8H	15.73	16.02	16.83	17.13	18.60	18.57	18.87	19.68	19.97	21.44
	12H	15.71	15.97	16.82	17.07	18.57	18.66	18.92	19.77	20.02	21.53
12H	4H	15.43	15.80	16.52	16.89	18.35	17.96	18.33	19.05	19.42	20.88
	6H	15.74	16.04	16.85	17.14	18.61	18.42	18.72	19.53	19.82	21.29
	8H	15.81	16.07	16.91	17.17	18.67	18.57	18.84	19.68	19.93	21.44