

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: P935471

Luminaire Tested: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

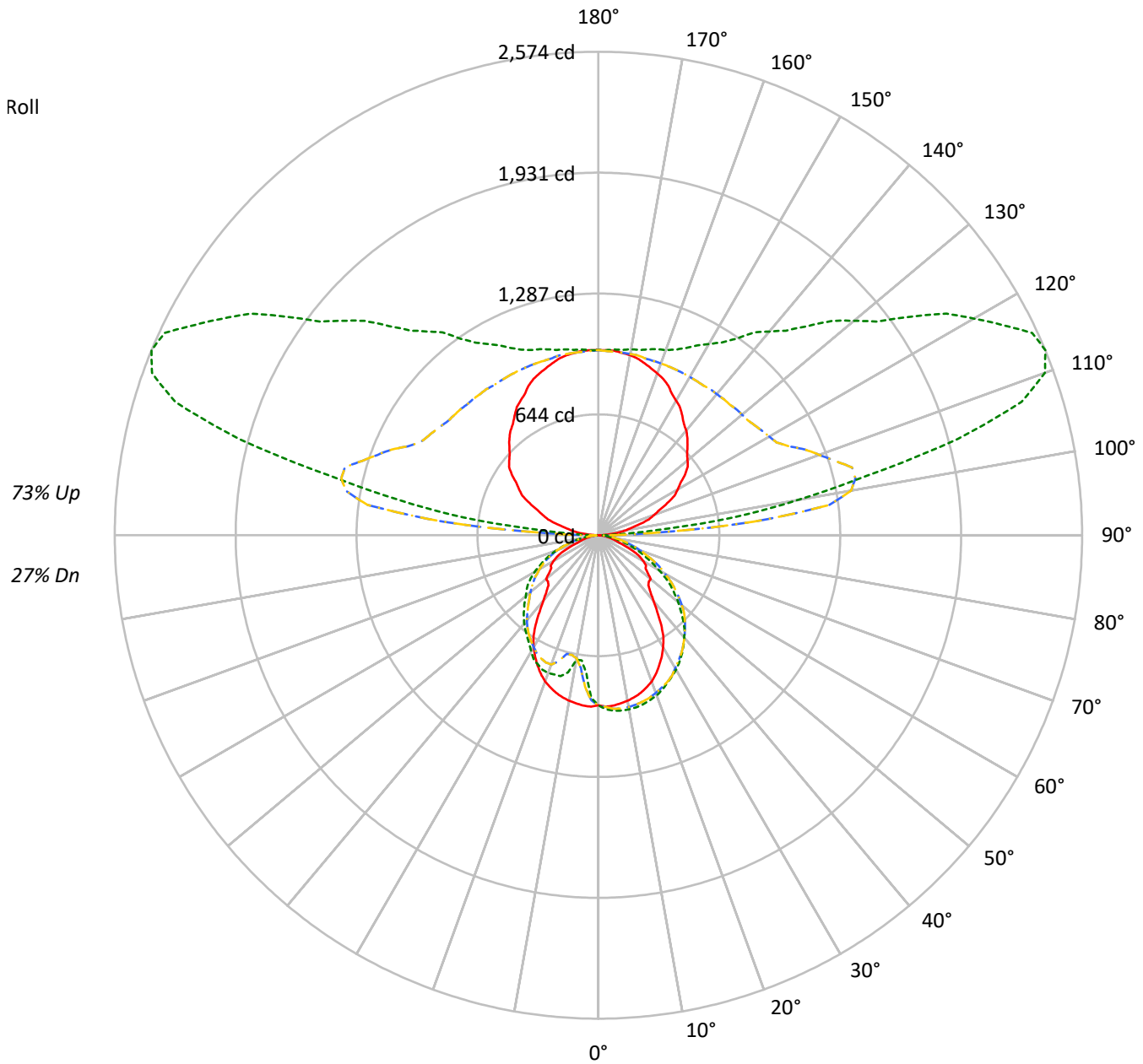
Test Method: LM-79-2019  
Report Number: P935471  
REPORT IS A COMBINATION OF REPORTS P933755 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8744.1 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 71.4  
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

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

	0°	90°	180°	270°
0°	5604	5604	5604	5604
5°	5644	5657	5644	4448
10°	5604	5573	5604	3984
15°	5541	5452	5541	4552
20°	5423	5309	5423	4562
25°	5184	5100	5184	4465
30°	4875	4927	4875	4253
35°	4345	4708	4345	4020
40°	3618	4451	3618	3844
45°	3230	4148	3230	3641
50°	3429	3788	3429	3438
55°	3224	3401	3224	3320
60°	3319	2888	3319	3040
65°	3005	2387	3005	2668
70°	2075	1902	2075	2237
75°	1814	1406	1814	1684
80°	1452	929	1452	1012
85°	817	493	817	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4955 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	0.9
10°-20°	232.2	2.7
20°-30°	358.9	4.1
30°-40°	428.5	4.9
40°-50°	431.0	4.9
50°-60°	375.0	4.3
60°-70°	265.9	3.0
70°-80°	140.7	1.6
80°-90°	38.8	0.4
90°-100°	480.6	5.5
100°-110°	1263.5	14.4
110°-120°	1310.1	15.0
120°-130°	1050.9	12.0
130°-140°	824.5	9.4
140°-150°	632.9	7.2
150°-160°	455.8	5.2
160°-170°	278.9	3.2
170°-180°	94.2	1.1
0°-30°	672.9	7.7
0°-40°	1101.4	12.6
0°-60°	1907.4	21.8
0°-90°	2352.7	26.9
90°-120°	3054.2	34.9
90°-150°	5562.5	63.6
90°-180°	6391.0	73.1
0°-180°	8744.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	906	906	906	906	906	
5°	910	938	910	738	910	86
15°	869	930	869	776	869	245
25°	765	867	765	759	765	351
35°	582	774	582	661	582	360
45°	375	638	375	560	375	301
55°	306	471	306	459	306	281
65°	213	284	213	317	213	203
75°	81	134	81	161	81	85
85°	14	34	14	29	14	19
90°	7	25	7	25	7	6
95°	64	290	64	290	64	71
105°	228	1978	228	1978	228	241
115°	404	2548	404	2548	404	399
125°	562	2029	562	2029	562	499
135°	670	1574	670	1574	670	519
145°	777	1277	777	1277	777	487
155°	879	1100	879	1100	879	404
165°	948	1024	948	1024	948	268
175°	986	993	986	993	986	94
180°	986	986	986	986	986	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	913.7	913.7	918.8	920.5	920.5	917.9	915.4	917.9	925.7	928.3	927.4
5°	910.2	917.1	926.6	928.3	930.0	929.1	927.4	929.1	937.6	939.4	940.3
7.5°	903.4	916.2	928.3	930.8	933.4	930.8	930.0	931.7	940.3	942.0	942.0
10°	894.8	912.8	926.6	928.3	930.8	928.3	928.3	931.7	940.3	942.0	942.8
12.5°	882.8	907.6	920.5	922.2	925.7	924.8	923.9	927.4	935.9	937.6	937.6
15°	869.1	898.3	910.2	912.0	917.9	916.2	916.2	919.6	929.1	931.7	930.8
17.5°	850.2	886.3	900.0	902.5	906.8	905.9	906.8	910.2	918.8	920.5	921.4
20°	828.8	870.0	886.3	888.8	893.1	893.1	893.1	897.4	905.9	909.3	909.3
22.5°	799.7	852.8	870.0	871.7	876.8	876.8	878.5	884.5	892.2	893.1	893.1
25°	765.4	833.9	848.5	853.7	858.8	861.4	863.9	867.4	870.0	869.1	870.0
27.5°	729.4	809.9	828.8	832.2	839.1	841.7	845.1	846.0	846.8	849.4	847.7
30°	689.1	776.5	804.8	808.2	819.4	821.1	817.7	819.4	823.6	825.4	827.1
32.5°	643.7	726.8	779.9	787.7	798.0	792.8	791.9	794.5	801.4	801.4	803.1
35°	582.0	688.2	756.8	763.6	771.4	765.4	768.8	769.7	774.0	776.5	775.7
37.5°	514.3	654.8	732.8	737.9	744.0	736.2	741.4	744.0	747.4	745.7	745.7
40°	454.3	602.5	704.5	707.9	713.1	707.1	712.3	714.0	715.7	714.0	713.1
42.5°	409.7	545.1	674.5	678.8	675.4	679.6	681.4	684.8	682.3	678.8	678.8
45°	375.4	529.7	642.0	647.1	642.0	648.8	651.4	651.4	643.7	642.0	641.1
47.5°	364.2	498.8	609.4	609.4	606.8	615.4	619.7	613.7	605.9	603.4	603.4
50°	363.4	464.5	564.8	561.4	573.4	583.7	579.4	573.4	567.4	558.0	558.0
52.5°	330.0	422.5	507.4	520.2	539.1	545.1	538.3	532.2	521.9	517.7	514.3
55°	306.0	378.8	455.1	480.9	500.6	508.2	495.4	489.4	474.0	471.4	469.7
57.5°	300.8	315.4	407.1	439.7	463.7	462.8	455.1	444.0	431.1	428.6	427.7
60°	276.0	228.0	355.7	394.3	419.1	416.5	409.7	399.4	387.4	385.7	384.0
62.5°	250.2	165.5	297.4	341.1	376.2	375.4	369.4	354.0	345.4	341.1	337.7
65°	212.6	138.9	211.7	283.7	334.2	335.9	323.2	312.0	302.5	297.4	296.6
67.5°	162.0	113.1	143.1	236.6	294.0	292.2	276.0	270.9	258.8	256.3	251.2
70°	120.0	75.4	99.4	192.0	254.6	250.2	237.5	231.4	220.2	214.3	210.9
72.5°	99.4	60.8	72.8	149.1	214.3	209.2	198.0	191.1	181.7	176.5	173.1
75°	80.6	64.2	55.7	110.6	174.0	170.6	160.3	153.4	145.7	138.9	139.7
77.5°	59.1	60.0	44.6	81.5	138.0	132.8	126.9	118.3	114.8	108.0	108.0
80°	44.6	47.1	33.4	55.7	99.4	99.4	94.3	88.3	82.3	78.9	78.9
82.5°	30.0	30.0	24.9	35.1	67.7	65.2	61.7	60.0	56.6	54.9	54.9
85°	13.7	17.1	15.4	21.4	36.9	38.6	38.6	36.9	36.0	34.3	35.1
87.5°	4.3	7.8	9.5	12.0	18.8	19.7	20.5	20.5	20.5	21.4	21.4
90°	6.6	11.9	17.2	18.5	29.1	43.2	50.3	44.6	33.5	25.1	25.1
92.5°	26.5	71.5	116.5	127.7	179.5	248.6	283.2	248.2	178.2	125.8	120.7
95°	63.6	145.9	228.2	248.8	441.8	699.2	827.8	738.7	560.4	426.8	411.6
97.5°	109.8	182.4	255.1	273.2	595.0	1024.2	1238.7	1182.4	1069.8	985.3	956.5
100°	145.6	211.5	277.3	293.8	650.8	1127.0	1365.1	1369.2	1377.4	1383.6	1349.2
102.5°	176.0	237.5	299.0	314.3	676.5	1159.3	1400.8	1472.5	1616.1	1723.7	1694.3
105°	227.7	279.7	331.7	344.7	695.4	1163.1	1396.9	1557.7	1879.4	2120.7	2104.9
107.5°	280.6	329.0	377.6	389.7	699.0	1111.3	1317.4	1541.9	1990.6	2327.2	2331.0
110°	316.3	360.1	403.8	414.8	693.6	1065.3	1251.2	1502.1	2003.8	2380.1	2396.6



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CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	351.4	393.1	434.9	445.3	693.9	1025.3	1191.0	1447.7	1961.2	2346.3	2371.6
115°	404.3	442.8	481.4	491.0	700.3	979.4	1118.9	1366.3	1860.9	2231.9	2267.0
117.5°	456.6	491.6	526.5	535.3	713.3	950.6	1069.3	1292.5	1738.9	2073.8	2112.6
120°	487.0	520.0	552.9	561.1	723.9	940.9	1049.4	1253.4	1661.2	1967.2	2005.0
122.5°	516.8	550.1	583.3	591.5	739.1	935.8	1034.2	1217.9	1585.2	1860.7	1897.9
125°	562.4	592.7	623.0	630.6	759.6	931.7	1017.7	1173.7	1485.7	1719.8	1754.1
127.5°	599.5	630.1	660.6	668.3	780.2	929.3	1003.8	1137.8	1405.7	1606.6	1635.6
130°	619.3	652.3	685.2	693.4	795.1	930.6	998.5	1117.7	1356.2	1535.1	1561.9
132.5°	639.9	672.8	705.7	714.0	807.3	931.7	993.9	1100.6	1314.1	1474.2	1498.2
135°	670.3	700.3	730.2	737.7	820.5	930.8	985.9	1075.3	1254.1	1388.2	1408.9
137.5°	701.4	731.1	760.8	768.2	840.3	936.5	984.6	1060.1	1211.3	1324.7	1341.6
140°	727.2	754.5	781.9	788.7	852.4	937.5	980.0	1045.2	1175.8	1273.7	1289.6
142.5°	747.0	772.3	797.6	803.9	862.6	940.9	980.0	1037.3	1152.0	1238.0	1251.7
145°	777.4	799.5	821.6	827.1	875.9	940.9	973.3	1020.3	1114.1	1184.5	1194.8
147.5°	808.0	829.4	850.9	856.3	895.3	947.3	973.3	1010.2	1084.1	1139.5	1148.0
150°	827.8	847.2	866.6	871.4	905.4	950.7	973.3	1004.5	1066.9	1113.6	1120.6
152.5°	848.3	863.0	877.7	881.4	912.1	952.9	973.3	999.9	1053.2	1093.1	1098.3
155°	878.8	889.7	900.5	903.2	926.6	957.7	973.3	994.5	1036.9	1068.7	1072.2
157.5°	901.2	911.8	922.4	925.0	941.1	962.6	973.3	989.8	1022.7	1047.4	1049.8
160°	916.4	924.7	932.9	935.0	947.8	964.8	973.3	987.5	1015.7	1036.9	1038.2
162.5°	931.7	937.8	944.0	945.5	954.8	967.2	973.3	985.3	1009.0	1026.9	1028.3
165°	948.2	953.8	959.4	960.8	965.0	970.5	973.3	981.8	999.0	1011.8	1013.1
167.5°	963.4	966.1	968.7	969.4	972.9	977.6	980.0	985.6	996.8	1005.1	1005.7
170°	973.3	976.0	978.6	979.3	979.5	979.8	980.0	985.6	996.8	1005.1	1005.1
172.5°	978.6	979.2	979.8	980.0	980.0	980.0	980.0	984.4	993.2	999.8	999.3
175°	985.9	985.9	985.9	985.9	984.0	981.3	980.0	982.8	988.4	992.6	992.6
177.5°	985.9	985.9	985.9	985.9	984.4	982.3	981.2	983.5	987.9	991.2	990.6
180°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	929.1	926.6	929.1	927.4	928.3	925.7	917.9	915.4	917.9	920.5	920.5
5°	940.3	938.5	940.3	940.3	939.4	937.6	929.1	927.4	929.1	930.0	928.3
7.5°	943.7	941.1	943.7	942.0	942.0	940.3	931.7	930.0	930.8	933.4	930.8
10°	943.7	941.1	943.7	942.8	942.0	940.3	931.7	928.3	928.3	930.8	928.3
12.5°	939.4	937.6	939.4	937.6	937.6	935.9	927.4	923.9	924.8	925.7	922.2
15°	932.5	930.0	932.5	930.8	931.7	929.1	919.6	916.2	916.2	917.9	912.0
17.5°	922.2	918.8	922.2	921.4	920.5	918.8	910.2	906.8	905.9	906.8	902.5
20°	910.2	907.6	910.2	909.3	909.3	905.9	897.4	893.1	893.1	893.1	888.8
22.5°	891.4	888.8	891.4	893.1	893.1	892.2	884.5	878.5	876.8	876.8	871.7
25°	870.0	867.4	870.0	870.0	869.1	870.0	867.4	863.9	861.4	858.8	853.7
27.5°	849.4	847.7	849.4	847.7	849.4	846.8	846.0	845.1	841.7	839.1	832.2
30°	828.8	827.1	828.8	827.1	825.4	823.6	819.4	817.7	821.1	819.4	808.2
32.5°	803.1	801.4	803.1	803.1	801.4	801.4	794.5	791.9	792.8	798.0	787.7
35°	776.5	774.0	776.5	775.7	776.5	774.0	769.7	768.8	765.4	771.4	763.6
37.5°	745.7	743.1	745.7	745.7	745.7	747.4	744.0	741.4	736.2	744.0	737.9
40°	714.0	710.6	714.0	713.1	714.0	715.7	714.0	712.3	707.1	713.1	707.9
42.5°	677.9	677.1	677.9	678.8	678.8	682.3	684.8	681.4	679.6	675.4	678.8
45°	639.4	637.6	639.4	641.1	642.0	643.7	651.4	651.4	648.8	642.0	647.1
47.5°	598.3	593.9	598.3	603.4	603.4	605.9	613.7	619.7	615.4	606.8	609.4
50°	554.6	555.4	554.6	558.0	558.0	567.4	573.4	579.4	583.7	573.4	561.4
52.5°	511.7	510.9	511.7	514.3	517.7	521.9	532.2	538.3	545.1	539.1	520.2
55°	468.9	470.6	468.9	469.7	471.4	474.0	489.4	495.4	508.2	500.6	480.9
57.5°	426.0	423.4	426.0	427.7	428.6	431.1	444.0	455.1	462.8	463.7	439.7
60°	376.2	372.8	376.2	384.0	385.7	387.4	399.4	409.7	416.5	419.1	394.3
62.5°	332.5	326.6	332.5	337.7	341.1	345.4	354.0	369.4	375.4	376.2	341.1
65°	286.3	283.7	286.3	296.6	297.4	302.5	312.0	323.2	335.9	334.2	283.7
67.5°	244.3	244.3	244.3	251.2	256.3	258.8	270.9	276.0	292.2	294.0	236.6
70°	205.7	204.8	205.7	210.9	214.3	220.2	231.4	237.5	250.2	254.6	192.0
72.5°	168.9	168.0	168.9	173.1	176.5	181.7	191.1	198.0	209.2	214.3	149.1
75°	136.3	134.5	136.3	139.7	138.9	145.7	153.4	160.3	170.6	174.0	110.6
77.5°	104.5	104.5	104.5	108.0	108.0	114.8	118.3	126.9	132.8	138.0	81.5
80°	78.0	77.1	78.0	78.9	78.9	82.3	88.3	94.3	99.4	99.4	55.7
82.5°	54.9	53.2	54.9	54.9	54.9	56.6	60.0	61.7	65.2	67.7	35.1
85°	34.3	34.3	34.3	35.1	34.3	36.0	36.9	38.6	38.6	36.9	21.4
87.5°	22.3	21.4	22.3	21.4	21.4	20.5	20.5	20.5	19.7	18.8	12.0
90°	25.1	25.1	25.1	25.1	25.1	33.5	44.6	50.3	43.2	29.1	18.5
92.5°	100.7	80.7	100.7	120.7	125.8	178.2	248.2	283.2	248.6	179.5	127.7
95°	351.0	290.4	351.0	411.6	426.8	560.4	738.7	827.8	699.2	441.8	248.8
97.5°	841.2	725.9	841.2	956.5	985.3	1069.8	1182.4	1238.7	1024.2	595.0	273.2
100°	1212.0	1074.6	1212.0	1349.2	1383.6	1377.4	1369.2	1365.1	1127.0	650.8	293.8
102.5°	1576.6	1459.0	1576.6	1694.3	1723.7	1616.1	1472.5	1400.8	1159.3	676.5	314.3
105°	2041.6	1978.4	2041.6	2104.9	2120.7	1879.4	1557.7	1396.9	1163.1	695.4	344.7
107.5°	2346.2	2361.6	2346.2	2331.0	2327.2	1990.6	1541.9	1317.4	1111.3	699.0	389.7
110°	2462.5	2528.3	2462.5	2396.6	2380.1	2003.8	1502.1	1251.2	1065.3	693.6	414.8





TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2472.8	2574.0	2472.8	2371.6	2346.3	1961.2	1447.7	1191.0	1025.3	693.9	445.3
115°	2407.2	2547.5	2407.2	2267.0	2231.9	1860.9	1366.3	1118.9	979.4	700.3	491.0
117.5°	2268.2	2423.8	2268.2	2112.6	2073.8	1738.9	1292.5	1069.3	950.6	713.3	535.3
120°	2156.2	2307.3	2156.2	2005.0	1967.2	1661.2	1253.4	1049.4	940.9	723.9	561.1
122.5°	2047.0	2196.1	2047.0	1897.9	1860.7	1585.2	1217.9	1034.2	935.8	739.1	591.5
125°	1891.4	2028.8	1891.4	1754.1	1719.8	1485.7	1173.7	1017.7	931.7	759.6	630.6
127.5°	1751.5	1867.3	1751.5	1635.6	1606.6	1405.7	1137.8	1003.8	929.3	780.2	668.3
130°	1669.0	1776.0	1669.0	1561.9	1535.1	1356.2	1117.7	998.5	930.6	795.1	693.4
132.5°	1594.1	1689.9	1594.1	1498.2	1474.2	1314.1	1100.6	993.9	931.7	807.3	714.0
135°	1491.5	1574.2	1491.5	1408.9	1388.2	1254.1	1075.3	985.9	930.8	820.5	737.7
137.5°	1409.2	1476.9	1409.2	1341.6	1324.7	1211.3	1060.1	984.6	936.5	840.3	768.2
140°	1352.8	1416.0	1352.8	1289.6	1273.7	1175.8	1045.2	980.0	937.5	852.4	788.7
142.5°	1306.0	1360.5	1306.0	1251.7	1238.0	1152.0	1037.3	980.0	940.9	862.6	803.9
145°	1235.9	1277.1	1235.9	1194.8	1184.5	1114.1	1020.3	973.3	940.9	875.9	827.1
147.5°	1182.1	1216.2	1182.1	1148.0	1139.5	1084.1	1010.2	973.3	947.3	895.3	856.3
150°	1148.2	1175.8	1148.2	1120.6	1113.6	1066.9	1004.5	973.3	950.7	905.4	871.4
152.5°	1119.2	1140.1	1119.2	1098.3	1093.1	1053.2	999.9	973.3	952.9	912.1	881.4
155°	1086.0	1099.8	1086.0	1072.2	1068.7	1036.9	994.5	973.3	957.7	926.6	903.2
157.5°	1059.5	1069.3	1059.5	1049.8	1047.4	1022.7	989.8	973.3	962.6	941.1	925.0
160°	1043.9	1049.4	1043.9	1038.2	1036.9	1015.7	987.5	973.3	964.8	947.8	935.0
162.5°	1033.6	1038.8	1033.6	1028.3	1026.9	1009.0	985.3	973.3	967.2	954.8	945.5
165°	1018.7	1024.3	1018.7	1013.1	1011.8	999.0	981.8	973.3	970.5	965.0	960.8
167.5°	1008.0	1010.4	1008.0	1005.7	1005.1	996.8	985.6	980.0	977.6	972.9	969.4
170°	1005.1	1005.1	1005.1	1005.1	1005.1	996.8	985.6	980.0	979.8	979.5	979.3
172.5°	997.3	995.2	997.3	999.3	999.8	993.2	984.4	980.0	980.0	980.0	980.0
175°	992.6	992.6	992.6	992.6	992.6	988.4	982.8	980.0	981.3	984.0	985.9
177.5°	988.3	985.9	988.3	990.6	991.2	987.9	983.5	981.2	982.3	984.4	985.9
180°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9



TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	918.8	913.7	913.7	905.1	901.7	899.1	894.8	882.0	878.5	875.1	880.2
5°	926.6	917.1	910.2	894.8	882.0	876.8	860.5	829.7	809.1	793.6	785.1
7.5°	928.3	916.2	903.4	879.3	848.5	834.8	785.1	728.5	713.1	699.4	690.8
10°	926.6	912.8	894.8	858.8	786.0	761.9	712.3	675.4	665.9	663.4	665.9
12.5°	920.5	907.6	882.8	822.8	720.8	704.5	675.4	654.0	652.2	656.6	679.6
15°	910.2	898.3	869.1	774.8	684.8	672.8	652.2	644.5	654.0	684.0	753.4
17.5°	900.0	886.3	850.2	727.7	657.4	648.8	634.2	649.6	702.8	743.1	766.2
20°	886.3	870.0	828.8	693.4	637.6	630.0	623.1	692.5	732.8	747.4	760.2
22.5°	870.0	852.8	799.7	669.4	617.1	611.1	615.4	716.5	732.8	743.1	754.3
25°	848.5	833.9	765.4	650.5	600.8	593.9	610.3	714.0	723.3	726.0	748.2
27.5°	828.8	809.9	729.4	633.4	581.1	578.5	614.5	702.8	709.7	712.3	736.2
30°	804.8	776.5	689.1	615.4	560.5	559.7	615.4	689.1	687.4	694.2	718.2
32.5°	779.9	726.8	643.7	593.1	540.8	540.0	609.4	668.6	666.9	676.2	694.2
35°	756.8	688.2	582.0	567.4	516.0	516.8	594.8	644.5	645.4	654.0	665.1
37.5°	732.8	654.8	514.3	539.1	491.9	491.9	575.1	622.2	620.5	623.1	638.6
40°	704.5	602.5	454.3	502.3	469.7	467.2	551.1	598.3	592.2	591.4	612.8
42.5°	674.5	545.1	409.7	453.4	444.0	440.6	521.9	569.1	558.0	560.5	588.0
45°	642.0	529.7	375.4	383.1	417.4	414.8	490.2	535.7	528.0	534.8	563.1
47.5°	609.4	498.8	364.2	318.0	389.1	388.3	455.1	503.1	498.8	505.7	535.7
50°	564.8	464.5	363.4	272.6	357.4	360.8	413.1	471.4	471.4	477.4	509.2
52.5°	507.4	422.5	330.0	246.8	320.5	330.8	376.2	444.0	445.7	451.7	479.9
55°	455.1	378.8	306.0	227.1	276.8	299.1	340.3	415.7	419.1	425.1	450.8
57.5°	407.1	315.4	300.8	204.0	236.6	258.0	308.6	388.3	390.0	395.2	420.0
60°	355.7	228.0	276.0	179.1	201.4	217.7	279.4	355.7	361.7	365.1	386.6
62.5°	297.4	165.5	250.2	162.0	184.3	187.7	255.4	324.9	332.5	335.1	348.0
65°	211.7	138.9	212.6	147.4	166.3	167.2	229.7	293.1	300.0	304.2	313.7
67.5°	143.1	113.1	162.0	133.7	152.6	153.4	204.8	256.3	265.7	269.1	275.1
70°	99.4	75.4	120.0	119.1	137.2	138.9	178.2	222.9	231.4	234.0	237.5
72.5°	72.8	60.8	99.4	107.1	120.8	122.6	150.9	185.1	193.7	196.3	198.0
75°	55.7	64.2	80.6	93.5	102.8	103.7	123.5	150.9	156.9	158.6	159.4
77.5°	44.6	60.0	59.1	75.4	84.0	82.3	96.9	116.6	121.7	121.7	121.7
80°	33.4	47.1	44.6	54.0	61.7	60.0	69.4	83.2	84.9	86.6	85.7
82.5°	24.9	30.0	30.0	34.3	41.2	39.4	46.3	54.0	54.0	54.0	55.7
85°	15.4	17.1	13.7	18.0	23.2	22.3	25.7	29.1	30.0	30.0	28.3
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	17.2	11.9	6.6	11.9	17.2	18.5	29.1	43.2	50.3	44.6	33.5
92.5°	116.5	71.5	26.5	71.5	116.5	127.7	179.5	248.6	283.2	248.2	178.2
95°	228.2	145.9	63.6	145.9	228.2	248.8	441.8	699.2	827.8	738.7	560.4
97.5°	255.1	182.4	109.8	182.4	255.1	273.2	595.0	1024.2	1238.7	1182.4	1069.8
100°	277.3	211.5	145.6	211.5	277.3	293.8	650.8	1127.0	1365.1	1369.2	1377.4
102.5°	299.0	237.5	176.0	237.5	299.0	314.3	676.5	1159.3	1400.8	1472.5	1616.1
105°	331.7	279.7	227.7	279.7	331.7	344.7	695.4	1163.1	1396.9	1557.7	1879.4
107.5°	377.6	329.0	280.6	329.0	377.6	389.7	699.0	1111.3	1317.4	1541.9	1990.6
110°	403.8	360.1	316.3	360.1	403.8	414.8	693.6	1065.3	1251.2	1502.1	2003.8



TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	434.9	393.1	351.4	393.1	434.9	445.3	693.9	1025.3	1191.0	1447.7	1961.2
115°	481.4	442.8	404.3	442.8	481.4	491.0	700.3	979.4	1118.9	1366.3	1860.9
117.5°	526.5	491.6	456.6	491.6	526.5	535.3	713.3	950.6	1069.3	1292.5	1738.9
120°	552.9	520.0	487.0	520.0	552.9	561.1	723.9	940.9	1049.4	1253.4	1661.2
122.5°	583.3	550.1	516.8	550.1	583.3	591.5	739.1	935.8	1034.2	1217.9	1585.2
125°	623.0	592.7	562.4	592.7	623.0	630.6	759.6	931.7	1017.7	1173.7	1485.7
127.5°	660.6	630.1	599.5	630.1	660.6	668.3	780.2	929.3	1003.8	1137.8	1405.7
130°	685.2	652.3	619.3	652.3	685.2	693.4	795.1	930.6	998.5	1117.7	1356.2
132.5°	705.7	672.8	639.9	672.8	705.7	714.0	807.3	931.7	993.9	1100.6	1314.1
135°	730.2	700.3	670.3	700.3	730.2	737.7	820.5	930.8	985.9	1075.3	1254.1
137.5°	760.8	731.1	701.4	731.1	760.8	768.2	840.3	936.5	984.6	1060.1	1211.3
140°	781.9	754.5	727.2	754.5	781.9	788.7	852.4	937.5	980.0	1045.2	1175.8
142.5°	797.6	772.3	747.0	772.3	797.6	803.9	862.6	940.9	980.0	1037.3	1152.0
145°	821.6	799.5	777.4	799.5	821.6	827.1	875.9	940.9	973.3	1020.3	1114.1
147.5°	850.9	829.4	808.0	829.4	850.9	856.3	895.3	947.3	973.3	1010.2	1084.1
150°	866.6	847.2	827.8	847.2	866.6	871.4	905.4	950.7	973.3	1004.5	1066.9
152.5°	877.7	863.0	848.3	863.0	877.7	881.4	912.1	952.9	973.3	999.9	1053.2
155°	900.5	889.7	878.8	889.7	900.5	903.2	926.6	957.7	973.3	994.5	1036.9
157.5°	922.4	911.8	901.2	911.8	922.4	925.0	941.1	962.6	973.3	989.8	1022.7
160°	932.9	924.7	916.4	924.7	932.9	935.0	947.8	964.8	973.3	987.5	1015.7
162.5°	944.0	937.8	931.7	937.8	944.0	945.5	954.8	967.2	973.3	985.3	1009.0
165°	959.4	953.8	948.2	953.8	959.4	960.8	965.0	970.5	973.3	981.8	999.0
167.5°	968.7	966.1	963.4	966.1	968.7	969.4	972.9	977.6	980.0	985.6	996.8
170°	978.6	976.0	973.3	976.0	978.6	979.3	979.5	979.8	980.0	985.6	996.8
172.5°	979.8	979.2	978.6	979.2	979.8	980.0	980.0	980.0	980.0	984.4	993.2
175°	985.9	985.9	985.9	985.9	985.9	985.9	984.0	981.3	980.0	982.8	988.4
177.5°	985.9	985.9	985.9	985.9	985.9	985.9	984.4	982.3	981.2	983.5	987.9
180°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9



TEST NUMBER: P935471  
 CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	874.2	871.7	875.1	865.6	875.1	871.7	874.2	880.2	875.1	878.5	882.0
5°	767.1	762.8	749.1	737.9	749.1	762.8	767.1	785.1	793.6	809.1	829.7
7.5°	685.7	682.3	678.8	672.0	678.8	682.3	685.7	690.8	699.4	713.1	728.5
10°	667.7	668.6	673.7	672.8	673.7	668.6	667.7	665.9	663.4	665.9	675.4
12.5°	714.0	721.6	749.9	748.2	749.9	721.6	714.0	679.6	656.6	652.2	654.0
15°	767.1	769.7	775.7	776.5	775.7	769.7	767.1	753.4	684.0	654.0	644.5
17.5°	772.3	773.1	777.4	777.4	777.4	773.1	772.3	766.2	743.1	702.8	649.6
20°	768.0	769.7	778.2	779.9	778.2	769.7	768.0	760.2	747.4	732.8	692.5
22.5°	766.2	769.7	776.5	775.7	776.5	769.7	766.2	754.3	743.1	732.8	716.5
25°	757.7	757.7	758.5	759.4	758.5	757.7	757.7	748.2	726.0	723.3	714.0
27.5°	739.7	741.4	746.5	745.7	746.5	741.4	739.7	736.2	712.3	709.7	702.8
30°	723.3	721.6	717.4	714.0	717.4	721.6	723.3	718.2	694.2	687.4	689.1
32.5°	696.0	691.7	687.4	684.8	687.4	691.7	696.0	694.2	676.2	666.9	668.6
35°	663.4	664.2	663.4	660.8	663.4	664.2	663.4	665.1	654.0	645.4	644.5
37.5°	640.3	642.0	641.1	637.6	641.1	642.0	640.3	638.6	623.1	620.5	622.2
40°	616.3	617.1	616.3	613.7	616.3	617.1	616.3	612.8	591.4	592.2	598.3
42.5°	593.1	592.2	589.7	588.0	589.7	592.2	593.1	588.0	560.5	558.0	569.1
45°	566.6	567.4	562.2	559.7	562.2	567.4	566.6	563.1	534.8	528.0	535.7
47.5°	540.0	540.0	535.7	533.1	535.7	540.0	540.0	535.7	505.7	498.8	503.1
50°	511.7	510.9	504.8	504.0	504.8	510.9	511.7	509.2	477.4	471.4	471.4
52.5°	479.1	479.1	479.9	481.7	479.9	479.1	479.1	479.9	451.7	445.7	444.0
55°	450.8	451.7	457.7	459.4	457.7	451.7	450.8	450.8	425.1	419.1	415.7
57.5°	421.7	421.7	426.0	426.0	426.0	421.7	421.7	420.0	395.2	390.0	388.3
60°	388.3	390.0	393.4	392.5	393.4	390.0	388.3	386.6	365.1	361.7	355.7
62.5°	353.2	354.9	355.7	354.0	355.7	354.9	353.2	348.0	335.1	332.5	324.9
65°	316.3	318.0	318.8	317.1	318.8	318.0	316.3	313.7	304.2	300.0	293.1
67.5°	278.5	277.7	276.8	280.3	276.8	277.7	278.5	275.1	269.1	265.7	256.3
70°	240.0	240.0	239.2	240.9	239.2	240.0	240.0	237.5	234.0	231.4	222.9
72.5°	198.9	198.0	201.4	198.9	201.4	198.0	198.9	198.0	196.3	193.7	185.1
75°	158.6	160.3	158.6	161.1	158.6	160.3	158.6	159.4	158.6	156.9	150.9
77.5°	120.8	122.6	120.8	120.8	120.8	122.6	120.8	121.7	121.7	121.7	116.6
80°	85.7	84.9	84.9	84.0	84.9	84.9	85.7	85.7	86.6	84.9	83.2
82.5°	54.9	54.0	54.0	55.7	54.0	54.0	54.9	55.7	54.0	54.0	54.0
85°	30.0	30.8	29.1	29.1	29.1	30.8	30.0	28.3	30.0	30.0	29.1
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	33.5	44.6	50.3	43.2
92.5°	125.8	120.7	100.7	80.7	100.7	120.7	125.8	178.2	248.2	283.2	248.6
95°	426.8	411.6	351.0	290.4	351.0	411.6	426.8	560.4	738.7	827.8	699.2
97.5°	985.3	956.5	841.2	725.9	841.2	956.5	985.3	1069.8	1182.4	1238.7	1024.2
100°	1383.6	1349.2	1212.0	1074.6	1212.0	1349.2	1383.6	1377.4	1369.2	1365.1	1127.0
102.5°	1723.7	1694.3	1576.6	1459.0	1576.6	1694.3	1723.7	1616.1	1472.5	1400.8	1159.3
105°	2120.7	2104.9	2041.6	1978.4	2041.6	2104.9	2120.7	1879.4	1557.7	1396.9	1163.1
107.5°	2327.2	2331.0	2346.2	2361.6	2346.2	2331.0	2327.2	1990.6	1541.9	1317.4	1111.3
110°	2380.1	2396.6	2462.5	2528.3	2462.5	2396.6	2380.1	2003.8	1502.1	1251.2	1065.3



TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2346.3	2371.6	2472.8	2574.0	2472.8	2371.6	2346.3	1961.2	1447.7	1191.0	1025.3
115°	2231.9	2267.0	2407.2	2547.5	2407.2	2267.0	2231.9	1860.9	1366.3	1118.9	979.4
117.5°	2073.8	2112.6	2268.2	2423.8	2268.2	2112.6	2073.8	1738.9	1292.5	1069.3	950.6
120°	1967.2	2005.0	2156.2	2307.3	2156.2	2005.0	1967.2	1661.2	1253.4	1049.4	940.9
122.5°	1860.7	1897.9	2047.0	2196.1	2047.0	1897.9	1860.7	1585.2	1217.9	1034.2	935.8
125°	1719.8	1754.1	1891.4	2028.8	1891.4	1754.1	1719.8	1485.7	1173.7	1017.7	931.7
127.5°	1606.6	1635.6	1751.5	1867.3	1751.5	1635.6	1606.6	1405.7	1137.8	1003.8	929.3
130°	1535.1	1561.9	1669.0	1776.0	1669.0	1561.9	1535.1	1356.2	1117.7	998.5	930.6
132.5°	1474.2	1498.2	1594.1	1689.9	1594.1	1498.2	1474.2	1314.1	1100.6	993.9	931.7
135°	1388.2	1408.9	1491.5	1574.2	1491.5	1408.9	1388.2	1254.1	1075.3	985.9	930.8
137.5°	1324.7	1341.6	1409.2	1476.9	1409.2	1341.6	1324.7	1211.3	1060.1	984.6	936.5
140°	1273.7	1289.6	1352.8	1416.0	1352.8	1289.6	1273.7	1175.8	1045.2	980.0	937.5
142.5°	1238.0	1251.7	1306.0	1360.5	1306.0	1251.7	1238.0	1152.0	1037.3	980.0	940.9
145°	1184.5	1194.8	1235.9	1277.1	1235.9	1194.8	1184.5	1114.1	1020.3	973.3	940.9
147.5°	1139.5	1148.0	1182.1	1216.2	1182.1	1148.0	1139.5	1084.1	1010.2	973.3	947.3
150°	1113.6	1120.6	1148.2	1175.8	1148.2	1120.6	1113.6	1066.9	1004.5	973.3	950.7
152.5°	1093.1	1098.3	1119.2	1140.1	1119.2	1098.3	1093.1	1053.2	999.9	973.3	952.9
155°	1068.7	1072.2	1086.0	1099.8	1086.0	1072.2	1068.7	1036.9	994.5	973.3	957.7
157.5°	1047.4	1049.8	1059.5	1069.3	1059.5	1049.8	1047.4	1022.7	989.8	973.3	962.6
160°	1036.9	1038.2	1043.9	1049.4	1043.9	1038.2	1036.9	1015.7	987.5	973.3	964.8
162.5°	1026.9	1028.3	1033.6	1038.8	1033.6	1028.3	1026.9	1009.0	985.3	973.3	967.2
165°	1011.8	1013.1	1018.7	1024.3	1018.7	1013.1	1011.8	999.0	981.8	973.3	970.5
167.5°	1005.1	1005.7	1008.0	1010.4	1008.0	1005.7	1005.1	996.8	985.6	980.0	977.6
170°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	996.8	985.6	980.0	979.8
172.5°	999.8	999.3	997.3	995.2	997.3	999.3	999.8	993.2	984.4	980.0	980.0
175°	992.6	992.6	992.6	992.6	992.6	992.6	992.6	988.4	982.8	980.0	981.3
177.5°	991.2	990.6	988.3	985.9	988.3	990.6	991.2	987.9	983.5	981.2	982.3
180°	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9	985.9



TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	894.8	899.1	901.7	905.1	913.7
5°	860.5	876.8	882.0	894.8	910.2
7.5°	785.1	834.8	848.5	879.3	903.4
10°	712.3	761.9	786.0	858.8	894.8
12.5°	675.4	704.5	720.8	822.8	882.8
15°	652.2	672.8	684.8	774.8	869.1
17.5°	634.2	648.8	657.4	727.7	850.2
20°	623.1	630.0	637.6	693.4	828.8
22.5°	615.4	611.1	617.1	669.4	799.7
25°	610.3	593.9	600.8	650.5	765.4
27.5°	614.5	578.5	581.1	633.4	729.4
30°	615.4	559.7	560.5	615.4	689.1
32.5°	609.4	540.0	540.8	593.1	643.7
35°	594.8	516.8	516.0	567.4	582.0
37.5°	575.1	491.9	491.9	539.1	514.3
40°	551.1	467.2	469.7	502.3	454.3
42.5°	521.9	440.6	444.0	453.4	409.7
45°	490.2	414.8	417.4	383.1	375.4
47.5°	455.1	388.3	389.1	318.0	364.2
50°	413.1	360.8	357.4	272.6	363.4
52.5°	376.2	330.8	320.5	246.8	330.0
55°	340.3	299.1	276.8	227.1	306.0
57.5°	308.6	258.0	236.6	204.0	300.8
60°	279.4	217.7	201.4	179.1	276.0
62.5°	255.4	187.7	184.3	162.0	250.2
65°	229.7	167.2	166.3	147.4	212.6
67.5°	204.8	153.4	152.6	133.7	162.0
70°	178.2	138.9	137.2	119.1	120.0
72.5°	150.9	122.6	120.8	107.1	99.4
75°	123.5	103.7	102.8	93.5	80.6
77.5°	96.9	82.3	84.0	75.4	59.1
80°	69.4	60.0	61.7	54.0	44.6
82.5°	46.3	39.4	41.2	34.3	30.0
85°	25.7	22.3	23.2	18.0	13.7
87.5°	12.0	10.3	10.3	6.8	4.3
90°	29.1	18.5	17.2	11.9	6.6
92.5°	179.5	127.7	116.5	71.5	26.5
95°	441.8	248.8	228.2	145.9	63.6
97.5°	595.0	273.2	255.1	182.4	109.8
100°	650.8	293.8	277.3	211.5	145.6
102.5°	676.5	314.3	299.0	237.5	176.0
105°	695.4	344.7	331.7	279.7	227.7
107.5°	699.0	389.7	377.6	329.0	280.6
110°	693.6	414.8	403.8	360.1	316.3



TEST NUMBER: P935471

CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	693.9	445.3	434.9	393.1	351.4
115°	700.3	491.0	481.4	442.8	404.3
117.5°	713.3	535.3	526.5	491.6	456.6
120°	723.9	561.1	552.9	520.0	487.0
122.5°	739.1	591.5	583.3	550.1	516.8
125°	759.6	630.6	623.0	592.7	562.4
127.5°	780.2	668.3	660.6	630.1	599.5
130°	795.1	693.4	685.2	652.3	619.3
132.5°	807.3	714.0	705.7	672.8	639.9
135°	820.5	737.7	730.2	700.3	670.3
137.5°	840.3	768.2	760.8	731.1	701.4
140°	852.4	788.7	781.9	754.5	727.2
142.5°	862.6	803.9	797.6	772.3	747.0
145°	875.9	827.1	821.6	799.5	777.4
147.5°	895.3	856.3	850.9	829.4	808.0
150°	905.4	871.4	866.6	847.2	827.8
152.5°	912.1	881.4	877.7	863.0	848.3
155°	926.6	903.2	900.5	889.7	878.8
157.5°	941.1	925.0	922.4	911.8	901.2
160°	947.8	935.0	932.9	924.7	916.4
162.5°	954.8	945.5	944.0	937.8	931.7
165°	965.0	960.8	959.4	953.8	948.2
167.5°	972.9	969.4	968.7	966.1	963.4
170°	979.5	979.3	978.6	976.0	973.3
172.5°	980.0	980.0	979.8	979.2	978.6
175°	984.0	985.9	985.9	985.9	985.9
177.5°	984.4	985.9	985.9	985.9	985.9
180°	985.9	985.9	985.9	985.9	985.9



TEST NUMBER: P935471  
 CATALOG NUMBER: SQ4-FA-125U-050D-935-1D-UNV-STD-W-6

**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	8.14	8.82	9.27	9.95	11.51	10.96	11.65	12.09	12.77	14.34
	3H	8.60	9.21	9.74	10.35	11.93	12.29	12.90	13.43	14.04	15.62
	4H	8.78	9.36	9.93	10.50	12.09	12.72	13.31	13.88	14.44	16.03
	6H	8.89	9.43	10.05	10.56	12.16	13.00	13.54	14.16	14.67	16.27
	8H	8.89	9.40	10.05	10.55	12.14	13.07	13.58	14.23	14.73	16.32
	12H	8.85	9.34	10.02	10.48	12.09	13.10	13.58	14.26	14.73	16.34
4H	2H	9.14	9.73	10.30	10.86	12.45	11.35	11.93	12.51	13.06	14.65
	3H	10.16	10.64	11.32	11.80	13.40	12.83	13.32	14.00	14.48	16.08
	4H	10.42	10.87	11.59	12.02	13.64	13.35	13.80	14.52	14.95	16.57
	6H	10.54	10.92	11.71	12.09	13.70	13.71	14.09	14.88	15.26	16.87
	8H	10.54	10.90	11.71	12.06	13.69	13.81	14.17	14.98	15.33	16.95
	12H	10.50	10.82	11.69	12.00	13.63	13.86	14.18	15.04	15.35	16.98
8H	4H	10.86	11.22	12.03	12.38	14.01	13.46	13.82	14.63	14.98	16.61
	6H	11.12	11.41	12.31	12.62	14.24	13.89	14.19	15.08	15.39	17.01
	8H	11.16	11.41	12.35	12.60	14.24	14.04	14.30	15.24	15.48	17.12
	12H	11.13	11.36	12.33	12.54	14.21	14.13	14.36	15.33	15.54	17.21
12H	4H	10.86	11.18	12.05	12.36	13.99	13.42	13.74	14.61	14.92	16.55
	6H	11.18	11.43	12.37	12.61	14.26	13.89	14.14	15.08	15.33	16.97
	8H	11.23	11.46	12.43	12.64	14.31	14.04	14.27	15.24	15.44	17.12