

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: P935322

Luminaire Tested: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935322
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

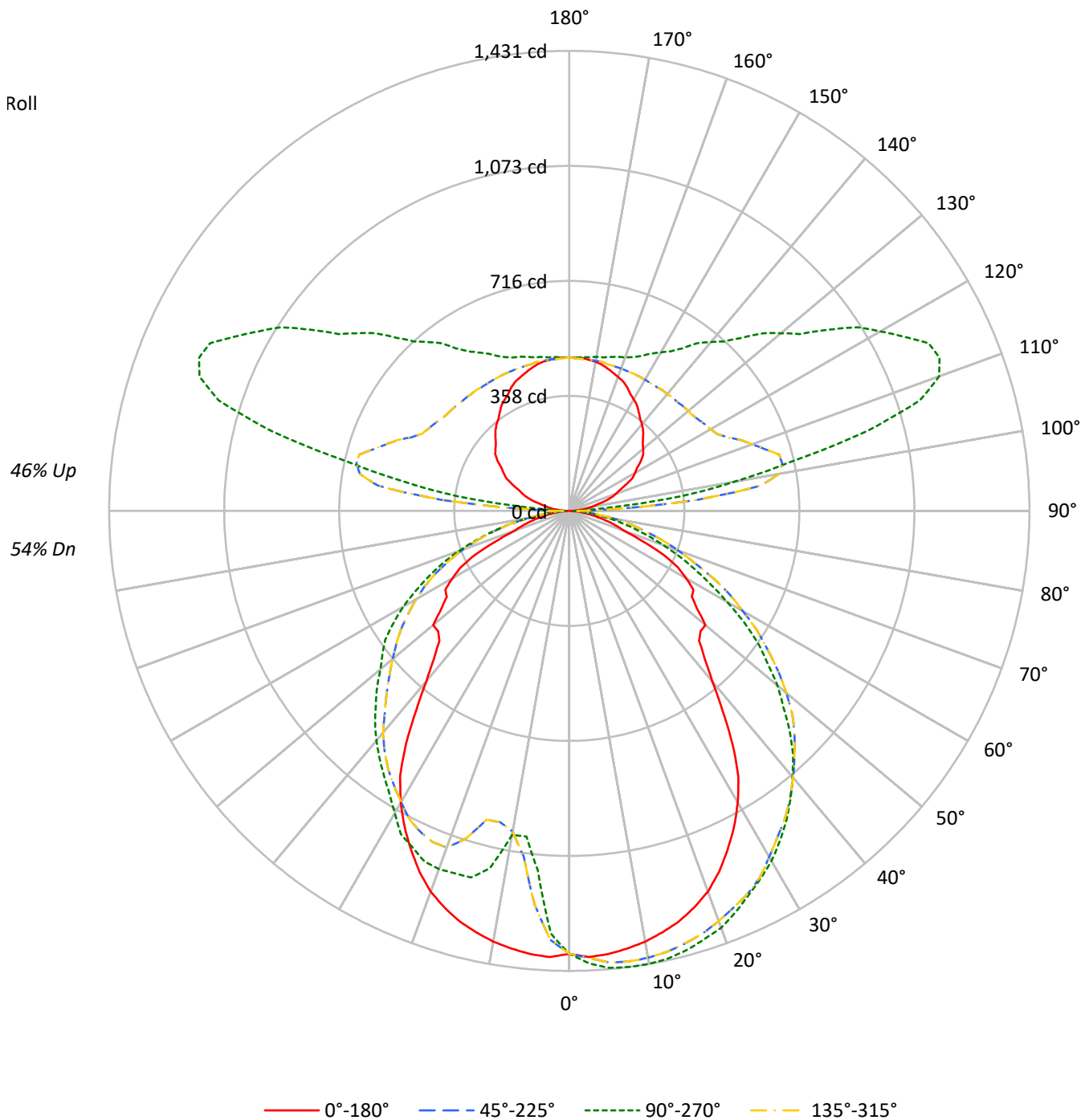
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666.6 lumens
Efficiency: N/A
Efficacy: 96.9 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): 68.8
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





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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32				32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28				28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24				24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21				21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19				19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17				17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15				15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12781	12781	12781	12781
5°	12862	12902	12862	10145
10°	12762	12709	12762	9086
15°	12609	12434	12609	10382
20°	12331	12108	12331	10404
25°	11776	11631	11776	10183
30°	11066	11237	11066	9700
35°	9850	10737	9850	9168
40°	8193	10148	8193	8765
45°	7307	9460	7307	8303
50°	7745	8639	7745	7839
55°	7266	7755	7266	7572
60°	7464	6587	7464	6934
65°	6735	5445	6735	6087
70°	4631	4340	4631	5100
75°	4017	3208	4017	3841
80°	3173	2121	3173	2309
85°	1731	1123	1731	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11221 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.9
10°-20°	353.0	5.3
20°-30°	545.7	8.2
30°-40°	651.4	9.8
40°-50°	655.3	9.8
50°-60°	570.2	8.6
60°-70°	404.2	6.1
70°-80°	213.9	3.2
80°-90°	55.1	0.8
90°-100°	232.6	3.5
100°-110°	611.6	9.2
110°-120°	634.1	9.5
120°-130°	508.6	7.6
130°-140°	399.1	6.0
140°-150°	306.3	4.6
150°-160°	220.6	3.3
160°-170°	135.0	2.0
170°-180°	45.6	0.7
0°-30°	1023.0	15.3
0°-40°	1674.5	25.1
0°-60°	2899.9	43.5
0°-90°	3573.1	53.6
90°-120°	1478.3	22.2
90°-150°	2692.4	40.4
90°-180°	3094.0	46.4
0°-180°	6666.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1427	1384	1122	1384	131
15°	1321	1414	1321	1181	1321	372
25°	1164	1319	1164	1154	1164	534
35°	885	1177	885	1005	885	547
45°	571	970	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	205	122	245	122	129
85°	21	52	21	44	21	28
90°	3	12	3	12	3	4
95°	31	141	31	141	31	34
105°	110	958	110	958	110	117
115°	196	1233	196	1233	196	193
125°	272	982	272	982	272	242
135°	324	762	324	762	324	251
145°	376	618	376	618	376	236
155°	425	532	425	532	425	195
165°	459	496	459	496	459	130
175°	477	480	477	480	477	45
180°	477	477	477	477	477	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1389.1	1389.1	1396.9	1399.6	1399.6	1395.6	1391.7	1395.6	1407.3	1411.3	1409.9
5°	1383.8	1394.3	1408.6	1411.3	1413.9	1412.6	1409.9	1412.6	1425.6	1428.2	1429.5
7.5°	1373.4	1393.0	1411.3	1415.2	1419.0	1415.2	1413.9	1416.5	1429.5	1432.1	1432.1
10°	1360.4	1387.8	1408.6	1411.3	1415.2	1411.3	1411.3	1416.5	1429.5	1432.1	1433.4
12.5°	1342.2	1380.0	1399.6	1402.1	1407.3	1406.0	1404.7	1409.9	1423.0	1425.6	1425.6
15°	1321.3	1365.7	1383.8	1386.5	1395.6	1393.0	1393.0	1398.2	1412.6	1416.5	1415.2
17.5°	1292.7	1347.4	1368.2	1372.1	1378.7	1377.4	1378.7	1383.8	1396.9	1399.6	1400.8
20°	1260.1	1322.6	1347.4	1351.3	1357.8	1357.8	1357.8	1364.4	1377.4	1382.6	1382.6
22.5°	1215.8	1296.6	1322.6	1325.2	1333.0	1333.0	1335.6	1344.8	1356.5	1357.8	1357.8
25°	1163.6	1267.9	1290.1	1297.9	1305.7	1309.6	1313.5	1318.7	1322.6	1321.3	1322.6
27.5°	1109.0	1231.4	1260.1	1265.3	1275.7	1279.7	1284.8	1286.1	1287.4	1291.4	1288.7
30°	1047.7	1180.6	1223.6	1228.8	1245.8	1248.3	1243.2	1245.8	1252.3	1254.9	1257.5
32.5°	978.6	1105.0	1185.8	1197.5	1213.2	1205.4	1204.0	1208.0	1218.4	1218.4	1221.0
35°	884.8	1046.4	1150.6	1161.1	1172.8	1163.6	1168.9	1170.2	1176.7	1180.6	1179.3
37.5°	781.9	995.5	1114.1	1122.0	1131.1	1119.3	1127.2	1131.1	1136.3	1133.7	1133.7
40°	690.6	916.1	1071.1	1076.4	1084.2	1075.1	1082.9	1085.5	1088.1	1085.5	1084.2
42.5°	622.9	828.8	1025.6	1032.0	1026.8	1033.3	1036.0	1041.2	1037.3	1032.0	1032.0
45°	570.7	805.3	976.0	983.8	976.0	986.4	990.4	990.4	978.6	976.0	974.7
47.5°	553.8	758.4	926.5	926.5	922.6	935.6	942.1	933.0	921.3	917.4	917.4
50°	552.5	706.2	858.7	853.5	871.8	887.4	880.9	871.8	862.6	848.3	848.3
52.5°	501.7	642.4	771.5	790.9	819.7	828.8	818.4	809.2	793.6	787.1	781.9
55°	465.2	576.0	691.9	731.0	761.0	772.7	753.2	744.1	720.6	716.7	714.1
57.5°	457.4	479.6	619.0	668.5	704.9	703.7	691.9	675.0	655.4	651.6	650.3
60°	419.6	346.7	540.8	599.4	637.2	633.3	622.9	607.2	589.0	586.4	583.8
62.5°	380.5	251.5	452.1	518.6	572.0	570.7	561.6	538.2	525.1	518.6	513.4
65°	323.2	211.1	321.9	431.4	508.2	510.8	491.3	474.3	460.0	452.1	450.8
67.5°	246.2	172.0	217.6	359.7	447.0	444.4	419.6	411.8	393.5	389.6	381.8
70°	182.4	114.7	151.2	291.9	387.0	380.5	361.0	351.8	334.9	325.8	320.6
72.5°	151.2	92.6	110.7	226.8	325.8	317.9	301.0	290.6	276.3	268.4	263.2
75°	122.5	97.7	84.7	168.1	264.5	259.3	243.7	233.2	221.5	211.1	212.4
77.5°	89.9	91.2	67.8	123.8	209.8	202.0	192.9	179.8	174.6	164.2	164.2
80°	67.8	71.7	50.8	84.7	151.2	151.2	143.4	134.2	125.1	119.9	119.9
82.5°	45.6	45.6	37.8	53.4	102.9	99.0	93.8	91.2	86.0	83.4	83.4
85°	20.9	26.0	23.5	32.6	56.1	58.7	58.7	56.1	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.6	30.0	31.3	31.3	31.3	32.6	32.6
90°	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2	12.2	12.2
92.5°	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2	60.8	58.4
95°	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3	206.6	199.3
97.5°	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7	476.9	462.9
100°	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7	669.7	653.0
102.5°	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2	834.3	820.0
105°	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7	1026.5	1018.9
107.5°	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5	1126.4	1128.3
110°	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9	1152.0	1160.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3	1135.7	1147.9
115°	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7	1080.3	1097.2
117.5°	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7	1003.8	1022.6
120°	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1	952.2	970.5
122.5°	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2	900.6	918.6
125°	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1	832.4	849.0
127.5°	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4	777.6	791.6
130°	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5	743.1	756.0
132.5°	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0	713.6	725.2
135°	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0	671.9	681.9
137.5°	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3	641.2	649.3
140°	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1	616.5	624.2
142.5°	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6	599.2	605.8
145°	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2	573.3	578.3
147.5°	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8	551.6	555.7
150°	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4	539.0	542.3
152.5°	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7	529.1	531.6
155°	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9	517.2	518.9
157.5°	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0	507.0	508.1
160°	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6	501.9	502.6
162.5°	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4	497.0	497.7
165°	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6	489.7	490.4
167.5°	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4	486.5	486.8
170°	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4	486.5	486.5
172.5°	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7	483.9	483.7
175°	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4	480.4	480.4
177.5°	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2	479.8	479.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1412.6	1408.6	1412.6	1409.9	1411.3	1407.3	1395.6	1391.7	1395.6	1399.6	1399.6
5°	1429.5	1426.9	1429.5	1429.5	1428.2	1425.6	1412.6	1409.9	1412.6	1413.9	1411.3
7.5°	1434.7	1430.8	1434.7	1432.1	1432.1	1429.5	1416.5	1413.9	1415.2	1419.0	1415.2
10°	1434.7	1430.8	1434.7	1433.4	1432.1	1429.5	1416.5	1411.3	1411.3	1415.2	1411.3
12.5°	1428.2	1425.6	1428.2	1425.6	1425.6	1423.0	1409.9	1404.7	1406.0	1407.3	1402.1
15°	1417.7	1413.9	1417.7	1415.2	1416.5	1412.6	1398.2	1393.0	1393.0	1395.6	1386.5
17.5°	1402.1	1396.9	1402.1	1400.8	1399.6	1396.9	1383.8	1378.7	1377.4	1378.7	1372.1
20°	1383.8	1380.0	1383.8	1382.6	1382.6	1377.4	1364.4	1357.8	1357.8	1357.8	1351.3
22.5°	1355.2	1351.3	1355.2	1357.8	1357.8	1356.5	1344.8	1335.6	1333.0	1333.0	1325.2
25°	1322.6	1318.7	1322.6	1322.6	1321.3	1322.6	1318.7	1313.5	1309.6	1305.7	1297.9
27.5°	1291.4	1288.7	1291.4	1288.7	1291.4	1287.4	1286.1	1284.8	1279.7	1275.7	1265.3
30°	1260.1	1257.5	1260.1	1257.5	1254.9	1252.3	1245.8	1243.2	1248.3	1245.8	1228.8
32.5°	1221.0	1218.4	1221.0	1221.0	1218.4	1218.4	1208.0	1204.0	1205.4	1213.2	1197.5
35°	1180.6	1176.7	1180.6	1179.3	1180.6	1176.7	1170.2	1168.9	1163.6	1172.8	1161.1
37.5°	1133.7	1129.7	1133.7	1133.7	1133.7	1136.3	1131.1	1127.2	1119.3	1131.1	1122.0
40°	1085.5	1080.2	1085.5	1084.2	1085.5	1088.1	1085.5	1082.9	1075.1	1084.2	1076.4
42.5°	1030.7	1029.4	1030.7	1032.0	1032.0	1037.3	1041.2	1036.0	1033.3	1026.8	1032.0
45°	972.1	969.5	972.1	974.7	976.0	978.6	990.4	990.4	986.4	976.0	983.8
47.5°	909.5	903.1	909.5	917.4	917.4	921.3	933.0	942.1	935.6	922.6	926.5
50°	843.1	844.4	843.1	848.3	848.3	862.6	871.8	880.9	887.4	871.8	853.5
52.5°	777.9	776.6	777.9	781.9	787.1	793.6	809.2	818.4	828.8	819.7	790.9
55°	712.8	715.4	712.8	714.1	716.7	720.6	744.1	753.2	772.7	761.0	731.0
57.5°	647.6	643.7	647.6	650.3	651.6	655.4	675.0	691.9	703.7	704.9	668.5
60°	572.0	566.9	572.0	583.8	586.4	589.0	607.2	622.9	633.3	637.2	599.4
62.5°	505.6	496.5	505.6	513.4	518.6	525.1	538.2	561.6	570.7	572.0	518.6
65°	435.2	431.4	435.2	450.8	452.1	460.0	474.3	491.3	510.8	508.2	431.4
67.5°	371.4	371.4	371.4	381.8	389.6	393.5	411.8	419.6	444.4	447.0	359.7
70°	312.8	311.5	312.8	320.6	325.8	334.9	351.8	361.0	380.5	387.0	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.3	290.6	301.0	317.9	325.8	226.8
75°	207.2	204.6	207.2	212.4	211.1	221.5	233.2	243.7	259.3	264.5	168.1
77.5°	159.0	159.0	159.0	164.2	164.2	174.6	179.8	192.9	202.0	209.8	123.8
80°	118.6	117.3	118.6	119.9	119.9	125.1	134.2	143.4	151.2	151.2	84.7
82.5°	83.4	80.8	83.4	83.4	83.4	86.0	91.2	93.8	99.0	102.9	53.4
85°	52.1	52.1	52.1	53.4	52.1	54.7	56.1	58.7	58.7	56.1	32.6
87.5°	33.9	32.6	33.9	32.6	32.6	31.3	31.3	31.3	30.0	28.6	18.2
90°	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9	14.1	8.9
92.5°	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4	86.9	61.8
95°	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3	213.8	120.4
97.5°	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7	288.1	132.3
100°	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5	315.1	142.2
102.5°	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2	327.5	152.2
105°	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9	336.6	166.9
107.5°	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8	338.3	188.6
110°	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7	335.7	200.8



TEST NUMBER: P935322

CATALOG NUMBER: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3	335.9	215.5
115°	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1	339.0	237.6
117.5°	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2	345.3	259.1
120°	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5	350.4	271.6
122.5°	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0	357.7	286.4
125°	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9	367.7	305.2
127.5°	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8	377.6	323.5
130°	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5	384.8	335.6
132.5°	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9	390.7	345.6
135°	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5	397.2	357.1
137.5°	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3	406.7	371.8
140°	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8	412.6	381.8
142.5°	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4	417.6	389.2
145°	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5	424.0	400.3
147.5°	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5	433.4	414.4
150°	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2	438.3	421.8
152.5°	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2	441.4	426.6
155°	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6	448.5	437.2
157.5°	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9	455.5	447.8
160°	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0	458.8	452.5
162.5°	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2	462.2	457.7
165°	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8	467.1	465.0
167.5°	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2	470.9	469.2
170°	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2	474.1	474.0
172.5°	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9	476.2	477.2
177.5°	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5	476.5	477.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935322

CATALOG NUMBER: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1396.9	1389.1	1389.1	1376.1	1370.8	1366.9	1360.4	1340.9	1335.6	1330.5	1338.3
5°	1408.6	1394.3	1383.8	1360.4	1340.9	1333.0	1308.3	1261.4	1230.2	1206.7	1193.7
7.5°	1411.3	1393.0	1373.4	1337.0	1290.1	1269.2	1193.7	1107.6	1084.2	1063.3	1050.3
10°	1408.6	1387.8	1360.4	1305.7	1195.0	1158.5	1082.9	1026.8	1012.5	1008.6	1012.5
12.5°	1399.6	1380.0	1342.2	1250.9	1095.9	1071.1	1026.8	994.2	991.7	998.2	1033.3
15°	1383.8	1365.7	1321.3	1178.0	1041.2	1022.9	991.7	979.9	994.2	1039.9	1145.5
17.5°	1368.2	1347.4	1292.7	1106.3	999.5	986.4	964.3	987.8	1068.5	1129.7	1164.9
20°	1347.4	1322.6	1260.1	1054.2	969.5	957.8	947.3	1052.9	1114.1	1136.3	1155.8
22.5°	1322.6	1296.6	1215.8	1017.7	938.2	929.1	935.6	1089.4	1114.1	1129.7	1146.7
25°	1290.1	1267.9	1163.6	989.1	913.5	903.1	927.8	1085.5	1099.8	1103.7	1137.6
27.5°	1260.1	1231.4	1109.0	963.0	883.5	879.6	934.3	1068.5	1078.9	1082.9	1119.3
30°	1223.6	1180.6	1047.7	935.6	852.2	850.9	935.6	1047.7	1045.0	1055.5	1092.0
32.5°	1185.8	1105.0	978.6	901.7	822.3	821.0	926.5	1016.4	1013.8	1028.1	1055.5
35°	1150.6	1046.4	884.8	862.6	784.5	785.8	904.4	979.9	981.2	994.2	1011.2
37.5°	1114.1	995.5	781.9	819.7	748.0	748.0	874.3	946.0	943.4	947.3	970.8
40°	1071.1	916.1	690.6	763.6	714.1	710.2	837.9	909.5	900.4	899.1	931.7
42.5°	1025.6	828.8	622.9	689.3	675.0	669.8	793.6	865.2	848.3	852.2	893.9
45°	976.0	805.3	570.7	582.5	634.6	630.7	745.4	814.4	802.7	813.1	856.2
47.5°	926.5	758.4	553.8	483.5	591.6	590.3	691.9	764.9	758.4	768.8	814.4
50°	858.7	706.2	552.5	414.4	543.4	548.6	628.1	716.7	716.7	725.8	774.0
52.5°	771.5	642.4	501.7	375.3	487.3	503.0	572.0	675.0	677.6	686.8	729.7
55°	691.9	576.0	465.2	345.3	420.9	454.8	517.4	632.0	637.2	646.3	685.5
57.5°	619.0	479.6	457.4	310.2	359.7	392.2	469.1	590.3	592.9	600.8	638.5
60°	540.8	346.7	419.6	272.3	306.2	330.9	424.8	540.8	549.9	555.1	587.7
62.5°	452.1	251.5	380.5	246.2	280.1	285.4	388.3	493.9	505.6	509.5	529.1
65°	321.9	211.1	323.2	224.1	252.8	254.1	349.2	445.7	456.1	462.6	476.9
67.5°	217.6	172.0	246.2	203.3	231.9	233.2	311.5	389.6	403.9	409.2	418.3
70°	151.2	114.7	182.4	181.1	208.5	211.1	271.0	338.8	351.8	355.7	361.0
72.5°	110.7	92.6	151.2	162.9	183.7	186.3	229.3	281.4	294.5	298.4	301.0
75°	84.7	97.7	122.5	142.1	156.4	157.7	187.6	229.3	238.5	241.1	242.4
77.5°	67.8	91.2	89.9	114.7	127.7	125.1	147.2	177.3	185.0	185.0	185.0
80°	50.8	71.7	67.8	82.1	93.8	91.2	105.6	126.4	129.0	131.6	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.4	82.1	82.1	82.1	84.7
85°	23.5	26.0	20.9	27.3	35.2	33.9	39.1	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.6	18.2	18.2	18.2
90°	8.3	5.8	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2
92.5°	56.4	34.6	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2
95°	110.5	70.6	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3
97.5°	123.5	88.3	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7
100°	134.2	102.3	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7
102.5°	144.7	115.0	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2
105°	160.5	135.4	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7
107.5°	182.8	159.3	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5
110°	195.5	174.3	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9



TEST NUMBER: P935322

CATALOG NUMBER: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	210.4	190.3	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3
115°	232.9	214.3	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7
117.5°	254.9	237.9	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7
120°	267.6	251.6	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1
122.5°	282.4	266.3	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2
125°	301.5	286.9	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1
127.5°	319.8	304.9	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4
130°	331.6	315.7	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5
132.5°	341.6	325.6	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0
135°	353.5	339.0	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0
137.5°	368.2	353.9	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3
140°	378.5	365.2	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1
142.5°	386.1	373.8	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6
145°	397.6	387.0	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2
147.5°	411.8	401.5	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8
150°	419.4	410.0	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4
152.5°	424.8	417.6	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7
155°	435.9	430.6	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9
157.5°	446.4	441.4	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0
160°	451.5	447.6	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6
162.5°	456.9	453.9	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4
165°	464.3	461.6	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6
167.5°	468.9	467.6	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4
170°	473.7	472.4	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4
172.5°	474.2	474.0	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7
175°	477.2	477.2	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4
177.5°	477.2	477.2	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935322
 CATALOG NUMBER: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1329.2	1325.2	1330.5	1316.1	1330.5	1325.2	1329.2	1338.3	1330.5	1335.6	1340.9
5°	1166.2	1159.8	1138.9	1122.0	1138.9	1159.8	1166.2	1193.7	1206.7	1230.2	1261.4
7.5°	1042.5	1037.3	1032.0	1021.6	1032.0	1037.3	1042.5	1050.3	1063.3	1084.2	1107.6
10°	1015.1	1016.4	1024.3	1022.9	1024.3	1016.4	1015.1	1012.5	1008.6	1012.5	1026.8
12.5°	1085.5	1097.2	1140.2	1137.6	1140.2	1097.2	1085.5	1033.3	998.2	991.7	994.2
15°	1166.2	1170.2	1179.3	1180.6	1179.3	1170.2	1166.2	1145.5	1039.9	994.2	979.9
17.5°	1174.1	1175.4	1181.9	1181.9	1181.9	1175.4	1174.1	1164.9	1129.7	1068.5	987.8
20°	1167.6	1170.2	1183.2	1185.8	1183.2	1170.2	1167.6	1155.8	1136.3	1114.1	1052.9
22.5°	1164.9	1170.2	1180.6	1179.3	1180.6	1170.2	1164.9	1146.7	1129.7	1114.1	1089.4
25°	1151.9	1151.9	1153.2	1154.5	1153.2	1151.9	1151.9	1137.6	1103.7	1099.8	1085.5
27.5°	1124.6	1127.2	1135.0	1133.7	1135.0	1127.2	1124.6	1119.3	1082.9	1078.9	1068.5
30°	1099.8	1097.2	1090.7	1085.5	1090.7	1097.2	1099.8	1092.0	1055.5	1045.0	1047.7
32.5°	1058.1	1051.6	1045.0	1041.2	1045.0	1051.6	1058.1	1055.5	1028.1	1013.8	1016.4
35°	1008.6	1009.9	1008.6	1004.7	1008.6	1009.9	1008.6	1011.2	994.2	981.2	979.9
37.5°	973.4	976.0	974.7	969.5	974.7	976.0	973.4	970.8	947.3	943.4	946.0
40°	936.9	938.2	936.9	933.0	936.9	938.2	936.9	931.7	899.1	900.4	909.5
42.5°	901.7	900.4	896.5	893.9	896.5	900.4	901.7	893.9	852.2	848.3	865.2
45°	861.3	862.6	854.9	850.9	854.9	862.6	861.3	856.2	813.1	802.7	814.4
47.5°	821.0	821.0	814.4	810.5	814.4	821.0	821.0	814.4	768.8	758.4	764.9
50°	777.9	776.6	767.5	766.2	767.5	776.6	777.9	774.0	725.8	716.7	716.7
52.5°	728.4	728.4	729.7	732.3	729.7	728.4	728.4	729.7	686.8	677.6	675.0
55°	685.5	686.8	695.8	698.5	695.8	686.8	685.5	685.5	646.3	637.2	632.0
57.5°	641.1	641.1	647.6	647.6	647.6	641.1	641.1	638.5	600.8	592.9	590.3
60°	590.3	592.9	598.1	596.8	598.1	592.9	590.3	587.7	555.1	549.9	540.8
62.5°	536.8	539.5	540.8	538.2	540.8	539.5	536.8	529.1	509.5	505.6	493.9
65°	480.9	483.5	484.7	482.2	484.7	483.5	480.9	476.9	462.6	456.1	445.7
67.5°	423.5	422.2	420.9	426.1	420.9	422.2	423.5	418.3	409.2	403.9	389.6
70°	364.8	364.8	363.6	366.1	363.6	364.8	364.8	361.0	355.7	351.8	338.8
72.5°	302.3	301.0	306.2	302.3	306.2	301.0	302.3	301.0	298.4	294.5	281.4
75°	241.1	243.7	241.1	245.0	241.1	243.7	241.1	242.4	241.1	238.5	229.3
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.3
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.6	129.0	126.4
82.5°	83.4	82.1	82.1	84.7	82.1	82.1	83.4	84.7	82.1	82.1	82.1
85°	45.6	46.9	44.3	44.3	44.3	46.9	45.6	43.0	45.6	45.6	44.3
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.6
90°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9
92.5°	60.8	58.4	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4
95°	206.6	199.3	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3
97.5°	476.9	462.9	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7
100°	669.7	653.0	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5
102.5°	834.3	820.0	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2
105°	1026.5	1018.9	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9
107.5°	1126.4	1128.3	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8
110°	1152.0	1160.0	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7



TEST NUMBER: P935322

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1135.7	1147.9	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3
115°	1080.3	1097.2	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1
117.5°	1003.8	1022.6	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2
120°	952.2	970.5	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5
122.5°	900.6	918.6	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0
125°	832.4	849.0	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9
127.5°	777.6	791.6	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8
130°	743.1	756.0	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5
132.5°	713.6	725.2	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9
135°	671.9	681.9	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5
137.5°	641.2	649.3	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3
140°	616.5	624.2	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8
142.5°	599.2	605.8	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4
145°	573.3	578.3	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5
147.5°	551.6	555.7	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5
150°	539.0	542.3	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2
152.5°	529.1	531.6	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2
155°	517.2	518.9	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6
157.5°	507.0	508.1	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9
160°	501.9	502.6	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0
162.5°	497.0	497.7	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2
165°	489.7	490.4	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8
167.5°	486.5	486.8	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2
170°	486.5	486.5	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2
172.5°	483.9	483.7	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9
177.5°	479.8	479.5	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1360.4	1366.9	1370.8	1376.1	1389.1
5°	1308.3	1333.0	1340.9	1360.4	1383.8
7.5°	1193.7	1269.2	1290.1	1337.0	1373.4
10°	1082.9	1158.5	1195.0	1305.7	1360.4
12.5°	1026.8	1071.1	1095.9	1250.9	1342.2
15°	991.7	1022.9	1041.2	1178.0	1321.3
17.5°	964.3	986.4	999.5	1106.3	1292.7
20°	947.3	957.8	969.5	1054.2	1260.1
22.5°	935.6	929.1	938.2	1017.7	1215.8
25°	927.8	903.1	913.5	989.1	1163.6
27.5°	934.3	879.6	883.5	963.0	1109.0
30°	935.6	850.9	852.2	935.6	1047.7
32.5°	926.5	821.0	822.3	901.7	978.6
35°	904.4	785.8	784.5	862.6	884.8
37.5°	874.3	748.0	748.0	819.7	781.9
40°	837.9	710.2	714.1	763.6	690.6
42.5°	793.6	669.8	675.0	689.3	622.9
45°	745.4	630.7	634.6	582.5	570.7
47.5°	691.9	590.3	591.6	483.5	553.8
50°	628.1	548.6	543.4	414.4	552.5
52.5°	572.0	503.0	487.3	375.3	501.7
55°	517.4	454.8	420.9	345.3	465.2
57.5°	469.1	392.2	359.7	310.2	457.4
60°	424.8	330.9	306.2	272.3	419.6
62.5°	388.3	285.4	280.1	246.2	380.5
65°	349.2	254.1	252.8	224.1	323.2
67.5°	311.5	233.2	231.9	203.3	246.2
70°	271.0	211.1	208.5	181.1	182.4
72.5°	229.3	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.4	142.1	122.5
77.5°	147.2	125.1	127.7	114.7	89.9
80°	105.6	91.2	93.8	82.1	67.8
82.5°	70.4	59.9	62.5	52.1	45.6
85°	39.1	33.9	35.2	27.3	20.9
87.5°	18.2	15.6	15.6	10.4	6.5
90°	14.1	8.9	8.3	5.8	3.2
92.5°	86.9	61.8	56.4	34.6	12.8
95°	213.8	120.4	110.5	70.6	30.7
97.5°	288.1	132.3	123.5	88.3	53.1
100°	315.1	142.2	134.2	102.3	70.5
102.5°	327.5	152.2	144.7	115.0	85.2
105°	336.6	166.9	160.5	135.4	110.2
107.5°	338.3	188.6	182.8	159.3	135.8
110°	335.7	200.8	195.5	174.3	153.1



TEST NUMBER: P935322

CATALOG NUMBER: SQ4-FA-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	335.9	215.5	210.4	190.3	170.1
115°	339.0	237.6	232.9	214.3	195.7
117.5°	345.3	259.1	254.9	237.9	221.0
120°	350.4	271.6	267.6	251.6	235.7
122.5°	357.7	286.4	282.4	266.3	250.2
125°	367.7	305.2	301.5	286.9	272.3
127.5°	377.6	323.5	319.8	304.9	290.1
130°	384.8	335.6	331.6	315.7	299.8
132.5°	390.7	345.6	341.6	325.6	309.7
135°	397.2	357.1	353.5	339.0	324.5
137.5°	406.7	371.8	368.2	353.9	339.5
140°	412.6	381.8	378.5	365.2	352.0
142.5°	417.6	389.2	386.1	373.8	361.6
145°	424.0	400.3	397.6	387.0	376.3
147.5°	433.4	414.4	411.8	401.5	391.1
150°	438.3	421.8	419.4	410.0	400.6
152.5°	441.4	426.6	424.8	417.6	410.6
155°	448.5	437.2	435.9	430.6	425.3
157.5°	455.5	447.8	446.4	441.4	436.2
160°	458.8	452.5	451.5	447.6	443.6
162.5°	462.2	457.7	456.9	453.9	450.9
165°	467.1	465.0	464.3	461.6	458.9
167.5°	470.9	469.2	468.9	467.6	466.3
170°	474.1	474.0	473.7	472.4	471.2
172.5°	474.3	474.3	474.2	474.0	473.7
175°	476.2	477.2	477.2	477.2	477.2
177.5°	476.5	477.2	477.2	477.2	477.2
180°	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935322
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.97	14.87	14.90	15.81	17.03	16.77	17.66	17.70	18.61	19.83
	3H	14.45	15.25	15.39	16.21	17.45	18.11	18.91	19.05	19.86	21.11
	4H	14.65	15.40	15.60	16.36	17.61	18.55	19.31	19.50	20.26	21.51
	6H	14.77	15.47	15.73	16.43	17.69	18.83	19.53	19.79	20.49	21.75
	8H	14.77	15.43	15.74	16.41	17.68	18.90	19.56	19.87	20.54	21.81
	12H	14.74	15.37	15.72	16.35	17.64	18.93	19.57	19.91	20.54	21.83
4H	2H	15.00	15.76	15.96	16.72	17.97	17.19	17.94	18.14	18.90	20.15
	3H	16.03	16.66	17.00	17.65	18.92	18.68	19.32	19.65	20.30	21.57
	4H	16.31	16.89	17.29	17.87	19.16	19.21	19.78	20.18	20.77	22.06
	6H	16.44	16.93	17.43	17.94	19.23	19.57	20.06	20.56	21.07	22.36
	8H	16.44	16.91	17.43	17.91	19.21	19.67	20.13	20.66	21.13	22.43
	12H	16.41	16.83	17.42	17.85	19.15	19.72	20.14	20.73	21.16	22.46
8H	4H	16.76	17.22	17.75	18.22	19.53	19.34	19.80	20.33	20.80	22.10
	6H	17.02	17.41	18.04	18.45	19.75	19.77	20.15	20.78	21.19	22.49
	8H	17.07	17.40	18.09	18.43	19.75	19.91	20.25	20.94	21.28	22.60
	12H	17.05	17.35	18.08	18.37	19.74	20.01	20.30	21.03	21.33	22.69
12H	4H	16.77	17.19	17.78	18.20	19.51	19.30	19.72	20.31	20.73	22.04
	6H	17.08	17.42	18.11	18.45	19.77	19.76	20.10	20.79	21.13	22.45
	8H	17.15	17.45	18.18	18.47	19.83	19.92	20.22	20.95	21.24	22.60