

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: P934676

Luminaire Tested: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934676
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

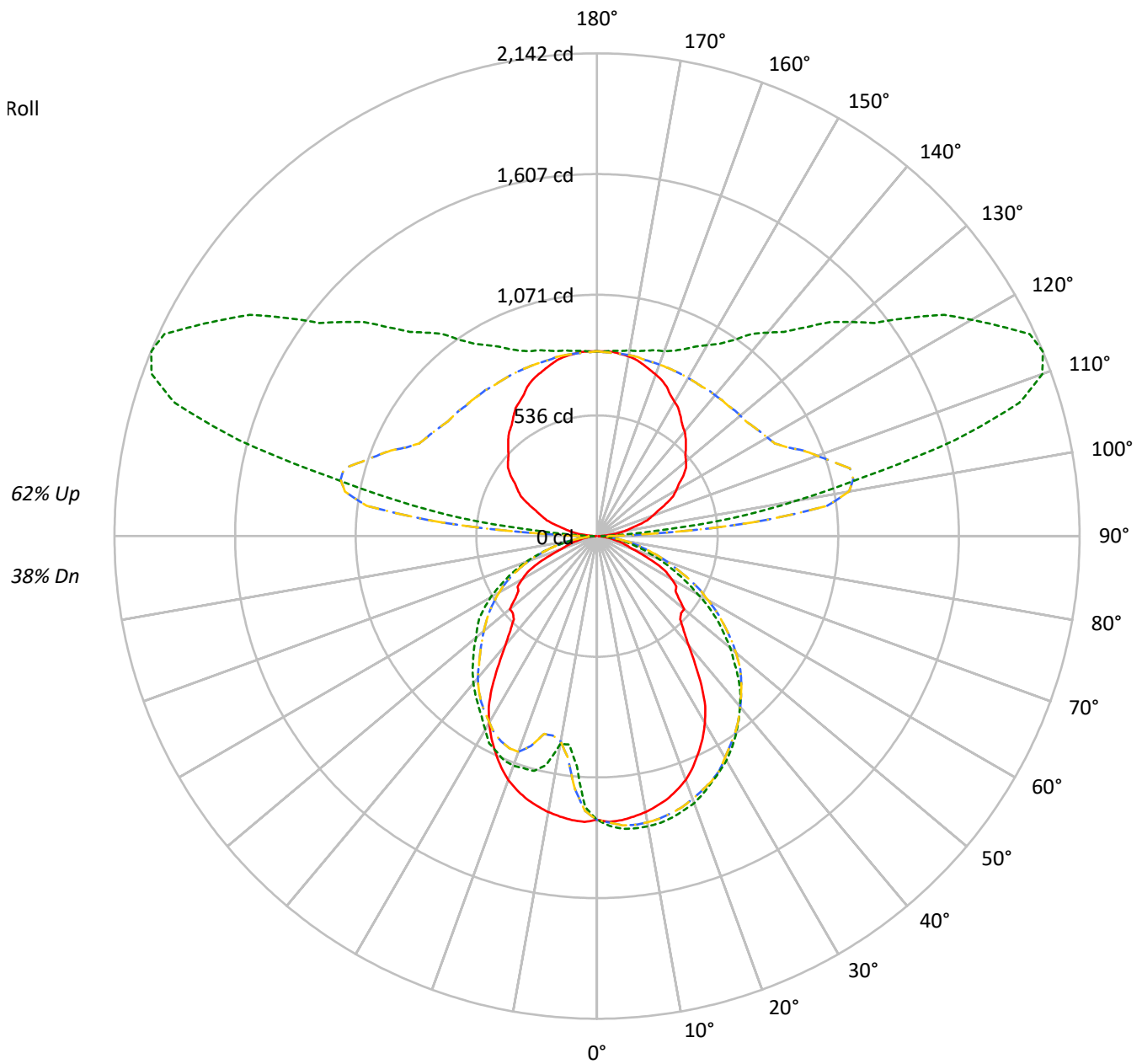
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8585.2 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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



— 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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5885	5896	5885	4637
10°	5845	5808	5845	4152
15°	5782	5682	5782	4745
20°	5661	5533	5661	4755
25°	5413	5316	5413	4654
30°	5093	5135	5093	4433
35°	4541	4907	4541	4190
40°	3784	4638	3784	4006
45°	3381	4323	3381	3795
50°	3592	3948	3592	3583
55°	3379	3544	3379	3460
60°	3483	3010	3483	3169
65°	3157	2489	3157	2781
70°	2188	1983	2188	2331
75°	1918	1466	1918	1756
80°	1544	969	1544	1055
85°	890	514	890	436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.3
10°-20°	322.7	3.8
20°-30°	498.8	5.8
30°-40°	595.4	6.9
40°-50°	598.9	7.0
50°-60°	521.1	6.1
60°-70°	369.5	4.3
70°-80°	195.5	2.3
80°-90°	51.8	0.6
90°-100°	399.9	4.7
100°-110°	1051.3	12.2
110°-120°	1090.0	12.7
120°-130°	874.3	10.2
130°-140°	686.1	8.0
140°-150°	526.6	6.1
150°-160°	379.2	4.4
160°-170°	232.0	2.7
170°-180°	78.4	0.9
0°-30°	935.1	10.9
0°-40°	1530.5	17.8
0°-60°	2650.6	30.9
0°-90°	3267.4	38.1
90°-120°	2541.2	29.6
90°-150°	4628.1	53.9
90°-180°	5318.0	61.9
0°-180°	8585.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1265	1304	1265	1026	1265	120
15°	1208	1292	1208	1079	1208	340
25°	1064	1205	1064	1055	1064	488
35°	809	1076	809	918	809	500
45°	522	886	522	778	522	418
55°	425	654	425	638	425	391
65°	295	394	295	441	295	282
75°	112	187	112	224	112	118
85°	19	48	19	40	19	26
90°	6	21	6	21	6	5
95°	53	242	53	242	53	59
105°	189	1646	189	1646	189	201
115°	336	2120	336	2120	336	332
125°	468	1688	468	1688	468	415
135°	558	1310	558	1310	558	432
145°	647	1063	647	1063	647	405
155°	731	915	731	915	731	336
165°	789	852	789	852	789	223
175°	820	826	820	826	820	78
180°	820	820	820	820	820	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1269.7	1269.7	1276.9	1279.3	1279.3	1275.6	1272.1	1275.6	1286.4	1289.9	1288.8
5°	1265.0	1274.5	1287.6	1289.9	1292.3	1291.2	1288.8	1291.2	1303.1	1305.4	1306.6
7.5°	1255.4	1273.3	1289.9	1293.5	1297.1	1293.5	1292.3	1294.7	1306.6	1309.0	1309.0
10°	1243.5	1268.5	1287.6	1289.9	1293.5	1289.9	1289.9	1294.7	1306.6	1309.0	1310.2
12.5°	1226.8	1261.3	1279.3	1281.6	1286.4	1285.2	1284.0	1288.8	1300.7	1303.1	1303.1
15°	1207.8	1248.3	1265.0	1267.3	1275.6	1273.3	1273.3	1278.0	1291.2	1294.7	1293.5
17.5°	1181.6	1231.6	1250.7	1254.2	1260.2	1259.0	1260.2	1265.0	1276.9	1279.3	1280.4
20°	1151.7	1208.9	1231.6	1235.1	1241.1	1241.1	1241.1	1247.0	1259.0	1263.7	1263.7
22.5°	1111.2	1185.1	1208.9	1211.3	1218.5	1218.5	1220.8	1229.2	1239.9	1241.1	1241.1
25°	1063.6	1158.9	1179.2	1186.3	1193.5	1197.0	1200.6	1205.4	1208.9	1207.8	1208.9
27.5°	1013.7	1125.5	1151.7	1156.5	1166.0	1169.7	1174.4	1175.6	1176.8	1180.3	1178.0
30°	957.6	1079.1	1118.4	1123.2	1138.7	1141.1	1136.3	1138.7	1144.6	1147.0	1149.4
32.5°	894.5	1010.0	1083.9	1094.6	1108.9	1101.7	1100.6	1104.1	1113.6	1113.6	1116.0
35°	808.7	956.5	1051.7	1061.2	1072.0	1063.6	1068.4	1069.6	1075.5	1079.1	1077.9
37.5°	714.7	910.0	1018.4	1025.6	1033.9	1023.2	1030.3	1033.9	1038.6	1036.2	1036.2
40°	631.3	837.3	979.1	983.8	991.0	982.7	989.8	992.2	994.6	992.2	991.0
42.5°	569.3	757.6	937.4	943.3	938.5	944.6	946.9	951.7	948.1	943.3	943.3
45°	521.7	736.1	892.1	899.3	892.1	901.7	905.2	905.2	894.5	892.1	890.9
47.5°	506.2	693.2	846.9	846.9	843.2	855.2	861.2	852.8	842.1	838.5	838.5
50°	505.0	645.6	784.9	780.2	796.8	811.1	805.1	796.8	788.5	775.4	775.4
52.5°	458.6	587.2	705.2	723.0	749.2	757.6	748.0	739.7	725.4	719.4	714.7
55°	425.2	526.5	632.4	668.2	695.6	706.3	688.5	680.1	658.6	655.1	652.7
57.5°	418.1	438.3	565.7	611.0	644.3	643.2	632.4	617.0	599.1	595.6	594.3
60°	383.5	316.8	494.3	547.9	582.4	578.9	569.3	555.0	538.4	536.0	533.6
62.5°	347.8	229.9	413.3	474.0	522.9	521.7	513.4	492.0	480.0	474.0	469.3
65°	295.3	193.0	294.2	394.3	464.5	466.9	449.1	433.5	420.5	413.3	412.1
67.5°	225.1	157.3	198.9	328.7	408.6	406.2	383.5	376.4	359.7	356.2	349.0
70°	166.8	104.8	138.2	266.8	353.8	347.8	329.9	321.6	306.1	297.7	293.0
72.5°	138.2	84.5	101.2	207.3	297.7	290.6	275.1	265.6	252.5	245.4	240.6
75°	112.0	89.3	77.4	153.6	241.8	237.0	222.7	213.2	202.5	193.0	194.1
77.5°	82.2	83.4	61.9	113.1	191.8	184.6	176.3	164.4	159.6	150.1	150.1
80°	61.9	65.5	46.4	77.4	138.2	138.2	131.0	122.7	114.4	109.6	109.6
82.5°	41.6	41.6	34.5	48.8	94.1	90.5	85.8	83.4	78.6	76.2	76.2
85°	19.1	23.8	21.4	29.7	51.2	53.6	53.6	51.2	50.0	47.7	48.8
87.5°	5.9	10.7	13.1	16.7	26.2	27.4	28.6	28.6	28.6	29.7	29.7
90°	5.5	9.9	14.4	15.5	24.2	36.0	41.8	37.2	27.9	21.0	21.0
92.5°	22.0	59.5	97.0	106.3	149.5	206.9	235.7	206.5	148.3	104.6	100.4
95°	52.8	121.4	189.9	207.0	367.5	581.6	688.7	614.6	466.3	355.1	342.5
97.5°	91.4	151.8	212.3	227.4	495.1	852.1	1030.6	983.7	890.0	819.8	795.8
100°	121.1	175.9	230.8	244.5	541.6	937.7	1135.8	1139.2	1146.1	1151.2	1122.6
102.5°	146.4	197.6	248.7	261.5	562.8	964.6	1165.5	1225.2	1344.6	1434.2	1409.7
105°	189.4	232.7	276.0	286.8	578.6	967.7	1162.2	1296.0	1563.7	1764.5	1751.3
107.5°	233.5	273.9	314.2	324.3	581.6	924.6	1096.1	1282.8	1656.2	1936.3	1939.5
110°	263.2	299.6	336.0	345.2	577.1	886.4	1041.1	1249.8	1667.2	1980.3	1994.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	292.3	327.1	361.8	370.5	577.3	853.1	991.0	1204.7	1631.9	1952.3	1973.3
115°	336.4	368.4	400.5	408.5	582.6	814.8	931.0	1136.7	1548.3	1857.0	1886.2
117.5°	379.9	409.0	438.1	445.4	593.5	790.9	889.7	1075.4	1446.8	1725.4	1757.7
120°	405.2	432.5	460.0	466.8	602.2	782.9	873.2	1042.9	1382.3	1636.8	1668.2
122.5°	430.0	457.7	485.3	492.2	614.9	778.6	860.5	1013.3	1318.9	1548.1	1579.1
125°	468.0	493.2	518.3	524.6	632.0	775.1	846.7	976.5	1236.1	1430.8	1459.4
127.5°	498.8	524.3	549.7	556.1	649.1	773.2	835.2	946.6	1169.5	1336.7	1360.8
130°	515.3	542.7	570.1	576.9	661.6	774.4	830.8	930.0	1128.5	1277.3	1299.6
132.5°	532.4	559.8	587.2	594.1	671.7	775.1	826.9	915.7	1093.4	1226.6	1246.6
135°	557.7	582.6	607.7	613.9	682.7	774.4	820.3	894.7	1043.5	1155.0	1172.2
137.5°	583.6	608.3	633.0	639.2	699.2	779.2	819.2	882.1	1007.9	1102.2	1116.2
140°	605.1	627.8	650.5	656.2	709.2	780.0	815.4	869.7	978.3	1059.8	1073.0
142.5°	621.6	642.6	663.7	668.9	717.8	782.9	815.4	863.0	958.5	1030.1	1041.4
145°	646.9	665.3	683.6	688.2	728.8	782.9	809.9	848.9	927.0	985.5	994.0
147.5°	672.2	690.1	708.0	712.4	744.9	788.2	809.9	840.6	901.9	948.0	955.1
150°	688.7	704.9	721.1	725.1	753.3	791.0	809.9	835.8	887.6	926.5	932.3
152.5°	705.8	718.0	730.3	733.3	758.8	792.8	809.9	832.0	876.3	909.5	913.8
155°	731.1	740.1	749.2	751.5	771.0	796.9	809.9	827.4	862.7	889.2	892.0
157.5°	749.8	758.6	767.4	769.6	783.0	800.9	809.9	823.5	851.0	871.5	873.5
160°	762.5	769.4	776.2	777.9	788.5	802.8	809.9	821.6	845.1	862.7	863.8
162.5°	775.1	780.3	785.4	786.8	794.5	804.7	809.9	819.8	839.6	854.4	855.5
165°	788.9	793.5	798.2	799.4	802.8	807.5	809.9	817.0	831.2	841.8	843.0
167.5°	801.6	803.8	806.0	806.6	809.5	813.4	815.4	820.0	829.3	836.3	836.8
170°	809.9	812.1	814.3	814.8	815.0	815.3	815.4	820.0	829.3	836.3	836.3
172.5°	814.3	814.7	815.3	815.4	815.4	815.4	815.4	819.0	826.4	831.9	831.4
175°	820.3	820.3	820.3	820.3	818.6	816.4	815.4	817.7	822.4	825.8	825.8
177.5°	820.3	820.3	820.3	820.3	819.0	817.3	816.4	818.3	821.9	824.7	824.2
180°	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1291.2	1287.6	1291.2	1288.8	1289.9	1286.4	1275.6	1272.1	1275.6	1279.3	1279.3
5°	1306.6	1304.2	1306.6	1306.6	1305.4	1303.1	1291.2	1288.8	1291.2	1292.3	1289.9
7.5°	1311.4	1307.8	1311.4	1309.0	1309.0	1306.6	1294.7	1292.3	1293.5	1297.1	1293.5
10°	1311.4	1307.8	1311.4	1310.2	1309.0	1306.6	1294.7	1289.9	1289.9	1293.5	1289.9
12.5°	1305.4	1303.1	1305.4	1303.1	1303.1	1300.7	1288.8	1284.0	1285.2	1286.4	1281.6
15°	1295.9	1292.3	1295.9	1293.5	1294.7	1291.2	1278.0	1273.3	1273.3	1275.6	1267.3
17.5°	1281.6	1276.9	1281.6	1280.4	1279.3	1276.9	1265.0	1260.2	1259.0	1260.2	1254.2
20°	1265.0	1261.3	1265.0	1263.7	1263.7	1259.0	1247.0	1241.1	1241.1	1241.1	1235.1
22.5°	1238.8	1235.1	1238.8	1241.1	1241.1	1239.9	1229.2	1220.8	1218.5	1218.5	1211.3
25°	1208.9	1205.4	1208.9	1208.9	1207.8	1208.9	1205.4	1200.6	1197.0	1193.5	1186.3
27.5°	1180.3	1178.0	1180.3	1178.0	1180.3	1176.8	1175.6	1174.4	1169.7	1166.0	1156.5
30°	1151.7	1149.4	1151.7	1149.4	1147.0	1144.6	1138.7	1136.3	1141.1	1138.7	1123.2
32.5°	1116.0	1113.6	1116.0	1116.0	1113.6	1113.6	1104.1	1100.6	1101.7	1108.9	1094.6
35°	1079.1	1075.5	1079.1	1077.9	1079.1	1075.5	1069.6	1068.4	1063.6	1072.0	1061.2
37.5°	1036.2	1032.7	1036.2	1036.2	1036.2	1038.6	1033.9	1030.3	1023.2	1033.9	1025.6
40°	992.2	987.4	992.2	991.0	992.2	994.6	992.2	989.8	982.7	991.0	983.8
42.5°	942.2	940.9	942.2	943.3	943.3	948.1	951.7	946.9	944.6	938.5	943.3
45°	888.5	886.1	888.5	890.9	892.1	894.5	905.2	905.2	901.7	892.1	899.3
47.5°	831.3	825.4	831.3	838.5	838.5	842.1	852.8	861.2	855.2	843.2	846.9
50°	770.6	771.8	770.6	775.4	775.4	788.5	796.8	805.1	811.1	796.8	780.2
52.5°	711.1	709.9	711.1	714.7	719.4	725.4	739.7	748.0	757.6	749.2	723.0
55°	651.5	653.9	651.5	652.7	655.1	658.6	680.1	688.5	706.3	695.6	668.2
57.5°	591.9	588.4	591.9	594.3	595.6	599.1	617.0	632.4	643.2	644.3	611.0
60°	522.9	518.1	522.9	533.6	536.0	538.4	555.0	569.3	578.9	582.4	547.9
62.5°	462.1	453.8	462.1	469.3	474.0	480.0	492.0	513.4	521.7	522.9	474.0
65°	397.8	394.3	397.8	412.1	413.3	420.5	433.5	449.1	466.9	464.5	394.3
67.5°	339.5	339.5	339.5	349.0	356.2	359.7	376.4	383.5	406.2	408.6	328.7
70°	285.8	284.7	285.8	293.0	297.7	306.1	321.6	329.9	347.8	353.8	266.8
72.5°	234.6	233.5	234.6	240.6	245.4	252.5	265.6	275.1	290.6	297.7	207.3
75°	189.4	187.0	189.4	194.1	193.0	202.5	213.2	222.7	237.0	241.8	153.6
77.5°	145.3	145.3	145.3	150.1	150.1	159.6	164.4	176.3	184.6	191.8	113.1
80°	108.4	107.2	108.4	109.6	109.6	114.4	122.7	131.0	138.2	138.2	77.4
82.5°	76.2	73.9	76.2	76.2	76.2	78.6	83.4	85.8	90.5	94.1	48.8
85°	47.7	47.7	47.7	48.8	47.7	50.0	51.2	53.6	53.6	51.2	29.7
87.5°	31.0	29.7	31.0	29.7	29.7	28.6	28.6	28.6	27.4	26.2	16.7
90°	21.0	21.0	21.0	21.0	21.0	27.9	37.2	41.8	36.0	24.2	15.5
92.5°	83.8	67.1	83.8	100.4	104.6	148.3	206.5	235.7	206.9	149.5	106.3
95°	292.2	241.7	292.2	342.5	355.1	466.3	614.6	688.7	581.6	367.5	207.0
97.5°	699.8	603.9	699.8	795.8	819.8	890.0	983.7	1030.6	852.1	495.1	227.4
100°	1008.4	894.1	1008.4	1122.6	1151.2	1146.1	1139.2	1135.8	937.7	541.6	244.5
102.5°	1311.8	1214.0	1311.8	1409.7	1434.2	1344.6	1225.2	1165.5	964.6	562.8	261.5
105°	1698.7	1646.1	1698.7	1751.3	1764.5	1563.7	1296.0	1162.2	967.7	578.6	286.8
107.5°	1952.2	1964.9	1952.2	1939.5	1936.3	1656.2	1282.8	1096.1	924.6	581.6	324.3
110°	2048.9	2103.7	2048.9	1994.0	1980.3	1667.2	1249.8	1041.1	886.4	577.1	345.2



TEST NUMBER: P934676

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2057.4	2141.6	2057.4	1973.3	1952.3	1631.9	1204.7	991.0	853.1	577.3	370.5
115°	2002.9	2119.6	2002.9	1886.2	1857.0	1548.3	1136.7	931.0	814.8	582.6	408.5
117.5°	1887.2	2016.6	1887.2	1757.7	1725.4	1446.8	1075.4	889.7	790.9	593.5	445.4
120°	1794.0	1919.8	1794.0	1668.2	1636.8	1382.3	1042.9	873.2	782.9	602.2	466.8
122.5°	1703.2	1827.2	1703.2	1579.1	1548.1	1318.9	1013.3	860.5	778.6	614.9	492.2
125°	1573.7	1688.0	1573.7	1459.4	1430.8	1236.1	976.5	846.7	775.1	632.0	524.6
127.5°	1457.2	1553.6	1457.2	1360.8	1336.7	1169.5	946.6	835.2	773.2	649.1	556.1
130°	1388.6	1477.6	1388.6	1299.6	1277.3	1128.5	930.0	830.8	774.4	661.6	576.9
132.5°	1326.3	1406.1	1326.3	1246.6	1226.6	1093.4	915.7	826.9	775.1	671.7	594.1
135°	1241.0	1309.7	1241.0	1172.2	1155.0	1043.5	894.7	820.3	774.4	682.7	613.9
137.5°	1172.5	1228.8	1172.5	1116.2	1102.2	1007.9	882.1	819.2	779.2	699.2	639.2
140°	1125.6	1178.2	1125.6	1073.0	1059.8	978.3	869.7	815.4	780.0	709.2	656.2
142.5°	1086.6	1131.9	1086.6	1041.4	1030.1	958.5	863.0	815.4	782.9	717.8	668.9
145°	1028.3	1062.6	1028.3	994.0	985.5	927.0	848.9	809.9	782.9	728.8	688.2
147.5°	983.5	1011.9	983.5	955.1	948.0	901.9	840.6	809.9	788.2	744.9	712.4
150°	955.3	978.3	955.3	932.3	926.5	887.6	835.8	809.9	791.0	753.3	725.1
152.5°	931.2	948.6	931.2	913.8	909.5	876.3	832.0	809.9	792.8	758.8	733.3
155°	903.5	915.0	903.5	892.0	889.2	862.7	827.4	809.9	796.9	771.0	751.5
157.5°	881.6	889.7	881.6	873.5	871.5	851.0	823.5	809.9	800.9	783.0	769.6
160°	868.6	873.2	868.6	863.8	862.7	845.1	821.6	809.9	802.8	788.5	777.9
162.5°	859.9	864.4	859.9	855.5	854.4	839.6	819.8	809.9	804.7	794.5	786.8
165°	847.6	852.2	847.6	843.0	841.8	831.2	817.0	809.9	807.5	802.8	799.4
167.5°	838.7	840.7	838.7	836.8	836.3	829.3	820.0	815.4	813.4	809.5	806.6
170°	836.3	836.3	836.3	836.3	836.3	829.3	820.0	815.4	815.3	815.0	814.8
172.5°	829.7	828.1	829.7	831.4	831.9	826.4	819.0	815.4	815.4	815.4	815.4
175°	825.8	825.8	825.8	825.8	825.8	822.4	817.7	815.4	816.4	818.6	820.3
177.5°	822.3	820.3	822.3	824.2	824.7	821.9	818.3	816.4	817.3	819.0	820.3
180°	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3



TEST NUMBER: P934676

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1276.9	1269.7	1269.7	1257.8	1253.1	1249.4	1243.5	1225.6	1220.8	1216.1	1223.2
5°	1287.6	1274.5	1265.0	1243.5	1225.6	1218.5	1195.9	1153.0	1124.4	1102.9	1091.0
7.5°	1289.9	1273.3	1255.4	1222.1	1179.2	1160.1	1091.0	1012.4	991.0	971.9	960.0
10°	1287.6	1268.5	1243.5	1193.5	1092.2	1058.9	989.8	938.5	925.5	921.9	925.5
12.5°	1279.3	1261.3	1226.8	1143.5	1001.7	979.1	938.5	908.8	906.4	912.3	944.6
15°	1265.0	1248.3	1207.8	1076.7	951.7	935.0	906.4	895.7	908.8	950.5	1047.0
17.5°	1250.7	1231.6	1181.6	1011.3	913.6	901.7	881.4	902.8	976.7	1032.7	1064.8
20°	1231.6	1208.9	1151.7	963.6	886.1	875.5	865.9	962.4	1018.4	1038.6	1056.5
22.5°	1208.9	1185.1	1111.2	930.3	857.5	849.3	855.2	995.7	1018.4	1032.7	1048.1
25°	1179.2	1158.9	1063.6	904.1	835.0	825.4	848.0	992.2	1005.3	1008.9	1039.8
27.5°	1151.7	1125.5	1013.7	880.2	807.5	804.0	854.0	976.7	986.2	989.8	1023.2
30°	1118.4	1079.1	957.6	855.2	779.0	777.8	855.2	957.6	955.2	964.8	998.1
32.5°	1083.9	1010.0	894.5	824.2	751.6	750.4	846.9	929.0	926.6	939.8	964.8
35°	1051.7	956.5	808.7	788.5	717.1	718.2	826.6	895.7	896.9	908.8	924.3
37.5°	1018.4	910.0	714.7	749.2	683.7	683.7	799.2	864.7	862.3	865.9	887.4
40°	979.1	837.3	631.3	698.0	652.7	649.1	765.9	831.3	823.0	821.8	851.6
42.5°	937.4	757.6	569.3	630.1	617.0	612.2	725.4	790.9	775.4	779.0	817.0
45°	892.1	736.1	521.7	532.4	580.0	576.5	681.3	744.4	733.7	743.3	782.5
47.5°	846.9	693.2	506.2	441.9	540.8	539.5	632.4	699.1	693.2	702.8	744.4
50°	784.9	645.6	505.0	378.7	496.7	501.5	574.1	655.1	655.1	663.4	707.5
52.5°	705.2	587.2	458.6	343.0	445.4	459.7	522.9	617.0	619.4	627.7	667.0
55°	632.4	526.5	425.2	315.6	384.7	415.7	472.9	577.6	582.4	590.8	626.5
57.5°	565.7	438.3	418.1	283.4	328.7	358.5	428.8	539.5	541.9	549.1	583.6
60°	494.3	316.8	383.5	248.9	279.9	302.5	388.3	494.3	502.6	507.4	537.2
62.5°	413.3	229.9	347.8	225.1	256.1	260.8	354.9	451.5	462.1	465.8	483.6
65°	294.2	193.0	295.3	204.9	231.1	232.3	319.2	407.3	416.9	422.9	435.9
67.5°	198.9	157.3	225.1	185.8	212.1	213.2	284.7	356.2	369.2	374.0	382.4
70°	138.2	104.8	166.8	165.5	190.6	193.0	247.8	309.6	321.6	325.2	329.9
72.5°	101.2	84.5	138.2	148.9	167.9	170.3	209.7	257.3	269.2	272.8	275.1
75°	77.4	89.3	112.0	129.8	143.0	144.1	171.5	209.7	218.0	220.3	221.6
77.5°	61.9	83.4	82.2	104.8	116.7	114.4	134.6	162.0	169.2	169.2	169.2
80°	46.4	65.5	61.9	75.0	85.8	83.4	96.4	115.5	117.9	120.3	119.1
82.5°	34.5	41.6	41.6	47.7	57.2	54.8	64.3	75.0	75.0	75.0	77.4
85°	21.4	23.8	19.1	25.0	32.1	31.0	35.7	40.5	41.6	41.6	39.3
87.5°	13.1	10.7	5.9	9.5	14.3	14.3	16.7	17.8	16.7	16.7	16.7
90°	14.4	9.9	5.5	9.9	14.4	15.5	24.2	36.0	41.8	37.2	27.9
92.5°	97.0	59.5	22.0	59.5	97.0	106.3	149.5	206.9	235.7	206.5	148.3
95°	189.9	121.4	52.8	121.4	189.9	207.0	367.5	581.6	688.7	614.6	466.3
97.5°	212.3	151.8	91.4	151.8	212.3	227.4	495.1	852.1	1030.6	983.7	890.0
100°	230.8	175.9	121.1	175.9	230.8	244.5	541.6	937.7	1135.8	1139.2	1146.1
102.5°	248.7	197.6	146.4	197.6	248.7	261.5	562.8	964.6	1165.5	1225.2	1344.6
105°	276.0	232.7	189.4	232.7	276.0	286.8	578.6	967.7	1162.2	1296.0	1563.7
107.5°	314.2	273.9	233.5	273.9	314.2	324.3	581.6	924.6	1096.1	1282.8	1656.2
110°	336.0	299.6	263.2	299.6	336.0	345.2	577.1	886.4	1041.1	1249.8	1667.2



TEST NUMBER: P934676

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	361.8	327.1	292.3	327.1	361.8	370.5	577.3	853.1	991.0	1204.7	1631.9
115°	400.5	368.4	336.4	368.4	400.5	408.5	582.6	814.8	931.0	1136.7	1548.3
117.5°	438.1	409.0	379.9	409.0	438.1	445.4	593.5	790.9	889.7	1075.4	1446.8
120°	460.0	432.5	405.2	432.5	460.0	466.8	602.2	782.9	873.2	1042.9	1382.3
122.5°	485.3	457.7	430.0	457.7	485.3	492.2	614.9	778.6	860.5	1013.3	1318.9
125°	518.3	493.2	468.0	493.2	518.3	524.6	632.0	775.1	846.7	976.5	1236.1
127.5°	549.7	524.3	498.8	524.3	549.7	556.1	649.1	773.2	835.2	946.6	1169.5
130°	570.1	542.7	515.3	542.7	570.1	576.9	661.6	774.4	830.8	930.0	1128.5
132.5°	587.2	559.8	532.4	559.8	587.2	594.1	671.7	775.1	826.9	915.7	1093.4
135°	607.7	582.6	557.7	582.6	607.7	613.9	682.7	774.4	820.3	894.7	1043.5
137.5°	633.0	608.3	583.6	608.3	633.0	639.2	699.2	779.2	819.2	882.1	1007.9
140°	650.5	627.8	605.1	627.8	650.5	656.2	709.2	780.0	815.4	869.7	978.3
142.5°	663.7	642.6	621.6	642.6	663.7	668.9	717.8	782.9	815.4	863.0	958.5
145°	683.6	665.3	646.9	665.3	683.6	688.2	728.8	782.9	809.9	848.9	927.0
147.5°	708.0	690.1	672.2	690.1	708.0	712.4	744.9	788.2	809.9	840.6	901.9
150°	721.1	704.9	688.7	704.9	721.1	725.1	753.3	791.0	809.9	835.8	887.6
152.5°	730.3	718.0	705.8	718.0	730.3	733.3	758.8	792.8	809.9	832.0	876.3
155°	749.2	740.1	731.1	740.1	749.2	751.5	771.0	796.9	809.9	827.4	862.7
157.5°	767.4	758.6	749.8	758.6	767.4	769.6	783.0	800.9	809.9	823.5	851.0
160°	776.2	769.4	762.5	769.4	776.2	777.9	788.5	802.8	809.9	821.6	845.1
162.5°	785.4	780.3	775.1	780.3	785.4	786.8	794.5	804.7	809.9	819.8	839.6
165°	798.2	793.5	788.9	793.5	798.2	799.4	802.8	807.5	809.9	817.0	831.2
167.5°	806.0	803.8	801.6	803.8	806.0	806.6	809.5	813.4	815.4	820.0	829.3
170°	814.3	812.1	809.9	812.1	814.3	814.8	815.0	815.3	815.4	820.0	829.3
172.5°	815.3	814.7	814.3	814.7	815.3	815.4	815.4	815.4	815.4	819.0	826.4
175°	820.3	820.3	820.3	820.3	820.3	820.3	818.6	816.4	815.4	817.7	822.4
177.5°	820.3	820.3	820.3	820.3	820.3	820.3	819.0	817.3	816.4	818.3	821.9
180°	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3



TEST NUMBER: P934676

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1214.9	1211.3	1216.1	1203.0	1216.1	1211.3	1214.9	1223.2	1216.1	1220.8	1225.6
5°	1066.0	1060.1	1041.0	1025.6	1041.0	1060.1	1066.0	1091.0	1102.9	1124.4	1153.0
7.5°	952.8	948.1	943.3	933.8	943.3	948.1	952.8	960.0	971.9	991.0	1012.4
10°	927.9	929.0	936.2	935.0	936.2	929.0	927.9	925.5	921.9	925.5	938.5
12.5°	992.2	1002.9	1042.2	1039.8	1042.2	1002.9	992.2	944.6	912.3	906.4	908.8
15°	1066.0	1069.6	1077.9	1079.1	1077.9	1069.6	1066.0	1047.0	950.5	908.8	895.7
17.5°	1073.1	1074.4	1080.3	1080.3	1080.3	1074.4	1073.1	1064.8	1032.7	976.7	902.8
20°	1067.2	1069.6	1081.5	1083.9	1081.5	1069.6	1067.2	1056.5	1038.6	1018.4	962.4
22.5°	1064.8	1069.6	1079.1	1077.9	1079.1	1069.6	1064.8	1048.1	1032.7	1018.4	995.7
25°	1052.9	1052.9	1054.1	1055.3	1054.1	1052.9	1052.9	1039.8	1008.9	1005.3	992.2
27.5°	1027.9	1030.3	1037.5	1036.2	1037.5	1030.3	1027.9	1023.2	989.8	986.2	976.7
30°	1005.3	1002.9	997.0	992.2	997.0	1002.9	1005.3	998.1	964.8	955.2	957.6
32.5°	967.1	961.2	955.2	951.7	955.2	961.2	967.1	964.8	939.8	926.6	929.0
35°	921.9	923.1	921.9	918.3	921.9	923.1	921.9	924.3	908.8	896.9	895.7
37.5°	889.8	892.1	890.9	886.1	890.9	892.1	889.8	887.4	865.9	862.3	864.7
40°	856.4	857.5	856.4	852.8	856.4	857.5	856.4	851.6	821.8	823.0	831.3
42.5°	824.2	823.0	819.4	817.0	819.4	823.0	824.2	817.0	779.0	775.4	790.9
45°	787.3	788.5	781.4	777.8	781.4	788.5	787.3	782.5	743.3	733.7	744.4
47.5°	750.4	750.4	744.4	740.9	744.4	750.4	750.4	744.4	702.8	693.2	699.1
50°	711.1	709.9	701.5	700.4	701.5	709.9	711.1	707.5	663.4	655.1	655.1
52.5°	665.8	665.8	667.0	669.4	667.0	665.8	665.8	667.0	627.7	619.4	617.0
55°	626.5	627.7	636.1	638.4	636.1	627.7	626.5	626.5	590.8	582.4	577.6
57.5°	586.0	586.0	591.9	591.9	591.9	586.0	586.0	583.6	549.1	541.9	539.5
60°	539.5	541.9	546.7	545.5	546.7	541.9	539.5	537.2	507.4	502.6	494.3
62.5°	490.7	493.1	494.3	492.0	494.3	493.1	490.7	483.6	465.8	462.1	451.5
65°	439.5	441.9	443.1	440.7	443.1	441.9	439.5	435.9	422.9	416.9	407.3
67.5°	387.1	385.9	384.7	389.5	384.7	385.9	387.1	382.4	374.0	369.2	356.2
70°	333.5	333.5	332.3	334.7	332.3	333.5	333.5	329.9	325.2	321.6	309.6
72.5°	276.3	275.1	279.9	276.3	279.9	275.1	276.3	275.1	272.8	269.2	257.3
75°	220.3	222.7	220.3	224.0	220.3	222.7	220.3	221.6	220.3	218.0	209.7
77.5°	167.9	170.3	167.9	167.9	167.9	170.3	167.9	169.2	169.2	169.2	162.0
80°	119.1	117.9	117.9	116.7	117.9	117.9	119.1	119.1	120.3	117.9	115.5
82.5°	76.2	75.0	75.0	77.4	75.0	75.0	76.2	77.4	75.0	75.0	75.0
85°	41.6	42.9	40.5	40.5	40.5	42.9	41.6	39.3	41.6	41.6	40.5
87.5°	15.5	14.3	14.3	14.3	14.3	14.3	15.5	16.7	16.7	16.7	17.8
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	27.9	37.2	41.8	36.0
92.5°	104.6	100.4	83.8	67.1	83.8	100.4	104.6	148.3	206.5	235.7	206.9
95°	355.1	342.5	292.2	241.7	292.2	342.5	355.1	466.3	614.6	688.7	581.6
97.5°	819.8	795.8	699.8	603.9	699.8	795.8	819.8	890.0	983.7	1030.6	852.1
100°	1151.2	1122.6	1008.4	894.1	1008.4	1122.6	1151.2	1146.1	1139.2	1135.8	937.7
102.5°	1434.2	1409.7	1311.8	1214.0	1311.8	1409.7	1434.2	1344.6	1225.2	1165.5	964.6
105°	1764.5	1751.3	1698.7	1646.1	1698.7	1751.3	1764.5	1563.7	1296.0	1162.2	967.7
107.5°	1936.3	1939.5	1952.2	1964.9	1952.2	1939.5	1936.3	1656.2	1282.8	1096.1	924.6
110°	1980.3	1994.0	2048.9	2103.7	2048.9	1994.0	1980.3	1667.2	1249.8	1041.1	886.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1952.3	1973.3	2057.4	2141.6	2057.4	1973.3	1952.3	1631.9	1204.7	991.0	853.1
115°	1857.0	1886.2	2002.9	2119.6	2002.9	1886.2	1857.0	1548.3	1136.7	931.0	814.8
117.5°	1725.4	1757.7	1887.2	2016.6	1887.2	1757.7	1725.4	1446.8	1075.4	889.7	790.9
120°	1636.8	1668.2	1794.0	1919.8	1794.0	1668.2	1636.8	1382.3	1042.9	873.2	782.9
122.5°	1548.1	1579.1	1703.2	1827.2	1703.2	1579.1	1548.1	1318.9	1013.3	860.5	778.6
125°	1430.8	1459.4	1573.7	1688.0	1573.7	1459.4	1430.8	1236.1	976.5	846.7	775.1
127.5°	1336.7	1360.8	1457.2	1553.6	1457.2	1360.8	1336.7	1169.5	946.6	835.2	773.2
130°	1277.3	1299.6	1388.6	1477.6	1388.6	1299.6	1277.3	1128.5	930.0	830.8	774.4
132.5°	1226.6	1246.6	1326.3	1406.1	1326.3	1246.6	1226.6	1093.4	915.7	826.9	775.1
135°	1155.0	1172.2	1241.0	1309.7	1241.0	1172.2	1155.0	1043.5	894.7	820.3	774.4
137.5°	1102.2	1116.2	1172.5	1228.8	1172.5	1116.2	1102.2	1007.9	882.1	819.2	779.2
140°	1059.8	1073.0	1125.6	1178.2	1125.6	1073.0	1059.8	978.3	869.7	815.4	780.0
142.5°	1030.1	1041.4	1086.6	1131.9	1086.6	1041.4	1030.1	958.5	863.0	815.4	782.9
145°	985.5	994.0	1028.3	1062.6	1028.3	994.0	985.5	927.0	848.9	809.9	782.9
147.5°	948.0	955.1	983.5	1011.9	983.5	955.1	948.0	901.9	840.6	809.9	788.2
150°	926.5	932.3	955.3	978.3	955.3	932.3	926.5	887.6	835.8	809.9	791.0
152.5°	909.5	913.8	931.2	948.6	931.2	913.8	909.5	876.3	832.0	809.9	792.8
155°	889.2	892.0	903.5	915.0	903.5	892.0	889.2	862.7	827.4	809.9	796.9
157.5°	871.5	873.5	881.6	889.7	881.6	873.5	871.5	851.0	823.5	809.9	800.9
160°	862.7	863.8	868.6	873.2	868.6	863.8	862.7	845.1	821.6	809.9	802.8
162.5°	854.4	855.5	859.9	864.4	859.9	855.5	854.4	839.6	819.8	809.9	804.7
165°	841.8	843.0	847.6	852.2	847.6	843.0	841.8	831.2	817.0	809.9	807.5
167.5°	836.3	836.8	838.7	840.7	838.7	836.8	836.3	829.3	820.0	815.4	813.4
170°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	829.3	820.0	815.4	815.3
172.5°	831.9	831.4	829.7	828.1	829.7	831.4	831.9	826.4	819.0	815.4	815.4
175°	825.8	825.8	825.8	825.8	825.8	825.8	825.8	822.4	817.7	815.4	816.4
177.5°	824.7	824.2	822.3	820.3	822.3	824.2	824.7	821.9	818.3	816.4	817.3
180°	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3	820.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1259.0	1259.0	1259.0	1259.0	1259.0
2.5°	1243.5	1249.4	1253.1	1257.8	1269.7
5°	1195.9	1218.5	1225.6	1243.5	1265.0
7.5°	1091.0	1160.1	1179.2	1222.1	1255.4
10°	989.8	1058.9	1092.2	1193.5	1243.5
12.5°	938.5	979.1	1001.7	1143.5	1226.8
15°	906.4	935.0	951.7	1076.7	1207.8
17.5°	881.4	901.7	913.6	1011.3	1181.6
20°	865.9	875.5	886.1	963.6	1151.7
22.5°	855.2	849.3	857.5	930.3	1111.2
25°	848.0	825.4	835.0	904.1	1063.6
27.5°	854.0	804.0	807.5	880.2	1013.7
30°	855.2	777.8	779.0	855.2	957.6
32.5°	846.9	750.4	751.6	824.2	894.5
35°	826.6	718.2	717.1	788.5	808.7
37.5°	799.2	683.7	683.7	749.2	714.7
40°	765.9	649.1	652.7	698.0	631.3
42.5°	725.4	612.2	617.0	630.1	569.3
45°	681.3	576.5	580.0	532.4	521.7
47.5°	632.4	539.5	540.8	441.9	506.2
50°	574.1	501.5	496.7	378.7	505.0
52.5°	522.9	459.7	445.4	343.0	458.6
55°	472.9	415.7	384.7	315.6	425.2
57.5°	428.8	358.5	328.7	283.4	418.1
60°	388.3	302.5	279.9	248.9	383.5
62.5°	354.9	260.8	256.1	225.1	347.8
65°	319.2	232.3	231.1	204.9	295.3
67.5°	284.7	213.2	212.1	185.8	225.1
70°	247.8	193.0	190.6	165.5	166.8
72.5°	209.7	170.3	167.9	148.9	138.2
75°	171.5	144.1	143.0	129.8	112.0
77.5°	134.6	114.4	116.7	104.8	82.2
80°	96.4	83.4	85.8	75.0	61.9
82.5°	64.3	54.8	57.2	47.7	41.6
85°	35.7	31.0	32.1	25.0	19.1
87.5°	16.7	14.3	14.3	9.5	5.9
90°	24.2	15.5	14.4	9.9	5.5
92.5°	149.5	106.3	97.0	59.5	22.0
95°	367.5	207.0	189.9	121.4	52.8
97.5°	495.1	227.4	212.3	151.8	91.4
100°	541.6	244.5	230.8	175.9	121.1
102.5°	562.8	261.5	248.7	197.6	146.4
105°	578.6	286.8	276.0	232.7	189.4
107.5°	581.6	324.3	314.2	273.9	233.5
110°	577.1	345.2	336.0	299.6	263.2



TEST NUMBER: P934676

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	577.3	370.5	361.8	327.1	292.3
115°	582.6	408.5	400.5	368.4	336.4
117.5°	593.5	445.4	438.1	409.0	379.9
120°	602.2	466.8	460.0	432.5	405.2
122.5°	614.9	492.2	485.3	457.7	430.0
125°	632.0	524.6	518.3	493.2	468.0
127.5°	649.1	556.1	549.7	524.3	498.8
130°	661.6	576.9	570.1	542.7	515.3
132.5°	671.7	594.1	587.2	559.8	532.4
135°	682.7	613.9	607.7	582.6	557.7
137.5°	699.2	639.2	633.0	608.3	583.6
140°	709.2	656.2	650.5	627.8	605.1
142.5°	717.8	668.9	663.7	642.6	621.6
145°	728.8	688.2	683.6	665.3	646.9
147.5°	744.9	712.4	708.0	690.1	672.2
150°	753.3	725.1	721.1	704.9	688.7
152.5°	758.8	733.3	730.3	718.0	705.8
155°	771.0	751.5	749.2	740.1	731.1
157.5°	783.0	769.6	767.4	758.6	749.8
160°	788.5	777.9	776.2	769.4	762.5
162.5°	794.5	786.8	785.4	780.3	775.1
165°	802.8	799.4	798.2	793.5	788.9
167.5°	809.5	806.6	806.0	803.8	801.6
170°	815.0	814.8	814.3	812.1	809.9
172.5°	815.4	815.4	815.3	814.7	814.3
175°	818.6	820.3	820.3	820.3	820.3
177.5°	819.0	820.3	820.3	820.3	820.3
180°	820.3	820.3	820.3	820.3	820.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.72	10.49	10.78	11.54	12.98	12.56	13.32	13.61	14.38	15.81
	3H	10.19	10.88	11.25	11.94	13.39	13.90	14.58	14.96	15.65	17.10
	4H	10.38	11.03	11.45	12.09	13.55	14.34	14.99	15.42	16.06	17.52
	6H	10.49	11.09	11.58	12.16	13.63	14.62	15.22	15.71	16.29	17.76
	8H	10.49	11.06	11.58	12.15	13.61	14.70	15.26	15.78	16.35	17.82
	12H	10.46	11.00	11.55	12.08	13.57	14.73	15.27	15.83	16.35	17.84
4H	2H	10.74	11.39	11.83	12.46	13.92	12.96	13.61	14.04	14.67	16.13
	3H	11.76	12.30	12.85	13.40	14.87	14.46	15.00	15.54	16.09	17.56
	4H	12.03	12.53	13.13	13.62	15.11	14.98	15.48	16.08	16.56	18.05
	6H	12.15	12.58	13.26	13.69	15.17	15.34	15.77	16.45	16.88	18.36
	8H	12.16	12.55	13.26	13.66	15.16	15.45	15.85	16.55	16.95	18.45
	12H	12.12	12.48	13.24	13.59	15.10	15.50	15.86	16.62	16.98	18.48
8H	4H	12.48	12.88	13.58	13.98	15.48	15.10	15.49	16.20	16.60	18.10
	6H	12.74	13.07	13.86	14.21	15.71	15.53	15.86	16.66	17.00	18.50
	8H	12.78	13.07	13.91	14.19	15.71	15.68	15.97	16.82	17.10	18.61
	12H	12.76	13.01	13.89	14.13	15.69	15.78	16.03	16.91	17.15	18.71
12H	4H	12.48	12.84	13.60	13.96	15.46	15.06	15.42	16.18	16.53	18.04
	6H	12.80	13.09	13.93	14.21	15.73	15.53	15.82	16.66	16.94	18.46
	8H	12.86	13.11	14.00	14.23	15.79	15.69	15.94	16.82	17.06	18.61