

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: P934252

Luminaire Tested: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

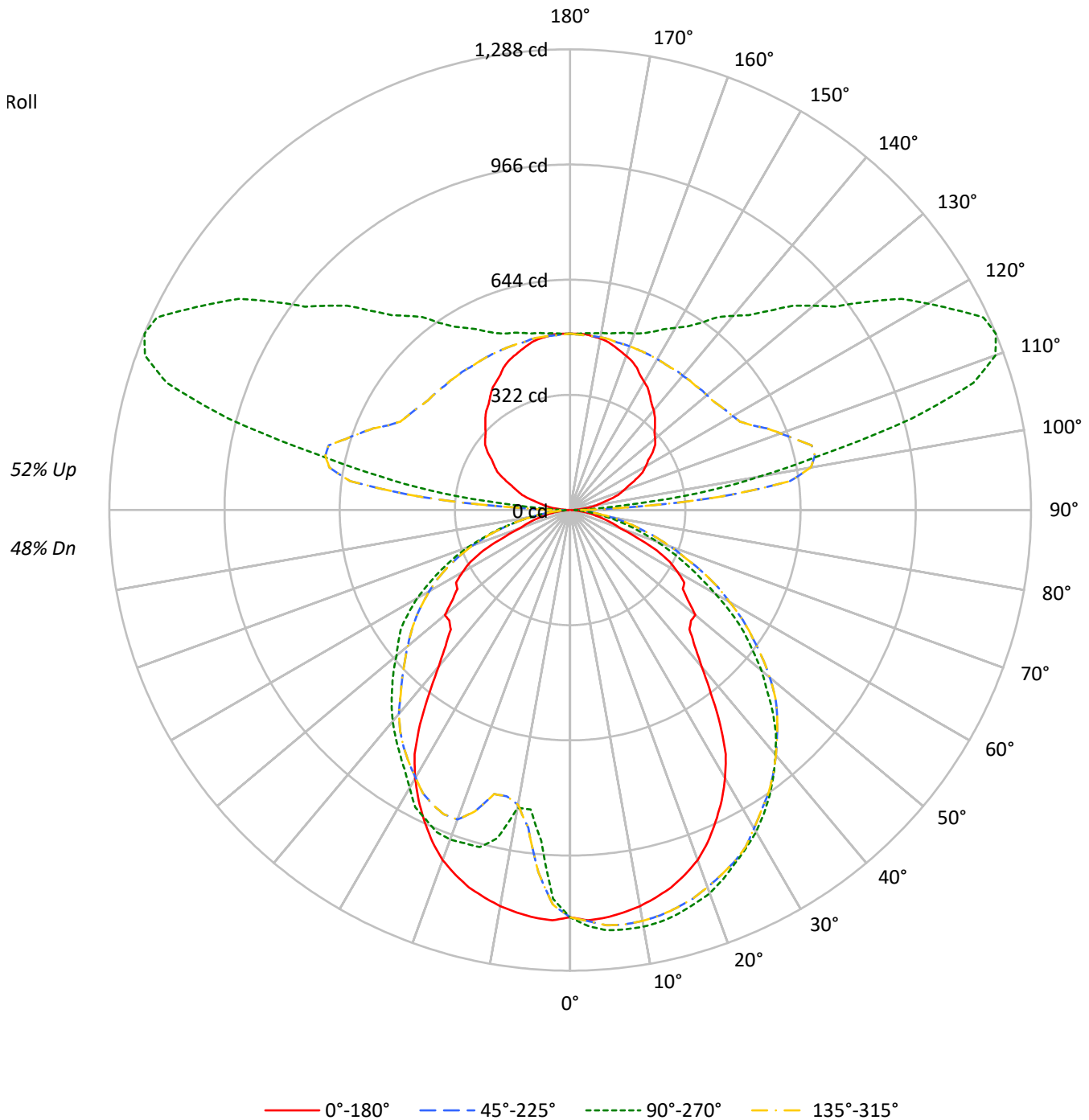
Test Method: LM-79-2019  
Report Number: P934252  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6151.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 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: General Diffuse  
  
Input Watts (W): 56.8  
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				
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	5282	5282	5282	5282
5°	5322	5332	5322	4193
10°	5286	5253	5286	3755
15°	5229	5138	5229	4291
20°	5119	5004	5119	4300
25°	4895	4807	4895	4209
30°	4606	4644	4606	4009
35°	4106	4437	4106	3789
40°	3422	4194	3422	3623
45°	3057	3910	3057	3431
50°	3248	3571	3248	3240
55°	3056	3205	3056	3129
60°	3150	2722	3150	2866
65°	2856	2250	2856	2515
70°	1978	1793	1978	2109
75°	1735	1326	1735	1587
80°	1397	876	1397	954
85°	806	464	806	394

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4685 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	1.7
10°-20°	291.8	4.7
20°-30°	451.0	7.3
30°-40°	538.4	8.8
40°-50°	541.6	8.8
50°-60°	471.3	7.7
60°-70°	334.1	5.4
70°-80°	176.8	2.9
80°-90°	45.9	0.7
90°-100°	240.4	3.9
100°-110°	632.1	10.3
110°-120°	655.4	10.7
120°-130°	525.7	8.5
130°-140°	412.5	6.7
140°-150°	316.6	5.1
150°-160°	228.0	3.7
160°-170°	139.5	2.3
170°-180°	47.1	0.8
0°-30°	845.6	13.7
0°-40°	1384.0	22.5
0°-60°	2396.9	39.0
0°-90°	2953.7	48.0
90°-120°	1527.9	24.8
90°-150°	2782.6	45.2
90°-180°	3197.0	52.0
0°-180°	6151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1138	1138	1138	1138	1138	
5°	1144	1179	1144	927	1144	109
15°	1092	1169	1092	976	1092	307
25°	962	1090	962	954	962	442
35°	731	973	731	830	731	452
45°	472	801	472	703	472	378
55°	384	591	384	577	384	353
65°	267	356	267	398	267	255
75°	101	169	101	202	101	106
85°	17	43	17	37	17	23
90°	3	13	3	13	3	3
95°	32	145	32	145	32	35
105°	114	990	114	990	114	121
115°	202	1274	202	1274	202	200
125°	281	1015	281	1015	281	250
135°	335	788	335	788	335	259
145°	389	639	389	639	389	244
155°	440	550	440	550	440	202
165°	474	512	474	512	474	134
175°	493	496	493	496	493	47
180°	493	493	493	493	493	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1148.1	1148.1	1154.6	1156.8	1156.8	1153.5	1150.3	1153.5	1163.2	1166.4	1165.4
5°	1143.9	1152.5	1164.4	1166.4	1168.6	1167.6	1165.4	1167.6	1178.3	1180.5	1181.5
7.5°	1135.2	1151.4	1166.4	1169.7	1172.9	1169.7	1168.6	1170.8	1181.5	1183.7	1183.7
10°	1124.4	1147.1	1164.4	1166.4	1169.7	1166.4	1166.4	1170.8	1181.5	1183.7	1184.7
12.5°	1109.3	1140.6	1156.8	1158.9	1163.2	1162.2	1161.1	1165.4	1176.2	1178.3	1178.3
15°	1092.2	1128.8	1143.9	1146.0	1153.5	1151.4	1151.4	1155.7	1167.6	1170.8	1169.7
17.5°	1068.5	1113.7	1130.9	1134.2	1139.5	1138.5	1139.5	1143.9	1154.6	1156.8	1157.8
20°	1041.5	1093.2	1113.7	1116.9	1122.3	1122.3	1122.3	1127.7	1138.5	1142.7	1142.7
22.5°	1004.9	1071.7	1093.2	1095.4	1101.9	1101.9	1104.0	1111.5	1121.2	1122.3	1122.3
25°	961.8	1048.0	1066.3	1072.7	1079.2	1082.4	1085.7	1090.0	1093.2	1092.2	1093.2
27.5°	916.6	1017.8	1041.5	1045.8	1054.4	1057.7	1062.0	1063.1	1064.1	1067.3	1065.3
30°	866.0	975.8	1011.4	1015.7	1029.7	1031.9	1027.5	1029.7	1035.1	1037.2	1039.4
32.5°	808.9	913.3	980.1	989.9	1002.8	996.3	995.2	998.5	1007.0	1007.0	1009.2
35°	731.3	864.9	951.1	959.7	969.4	961.8	966.2	967.2	972.6	975.8	974.8
37.5°	646.3	822.9	920.9	927.4	934.9	925.2	931.6	934.9	939.2	937.0	937.0
40°	570.9	757.1	885.4	889.6	896.1	888.6	895.0	897.2	899.4	897.2	896.1
42.5°	514.8	685.0	847.6	853.0	848.7	854.2	856.2	860.6	857.4	853.0	853.0
45°	471.8	665.6	806.7	813.2	806.7	815.4	818.6	818.6	808.9	806.7	805.6
47.5°	457.8	626.8	765.8	765.8	762.5	773.4	778.7	771.2	761.5	758.3	758.3
50°	456.7	583.8	709.8	705.5	720.5	733.5	728.1	720.5	713.0	701.2	701.2
52.5°	414.7	531.0	637.7	653.8	677.5	685.0	676.4	668.9	656.0	650.5	646.3
55°	384.5	476.1	571.9	604.3	629.0	638.7	622.6	615.0	595.6	592.4	590.2
57.5°	378.1	396.4	511.6	552.5	582.7	581.6	571.9	557.9	541.8	538.6	537.4
60°	346.8	286.5	446.9	495.5	526.7	523.5	514.8	501.9	486.9	484.7	482.5
62.5°	314.5	207.9	373.7	428.6	472.8	471.8	464.2	444.9	434.0	428.6	424.4
65°	267.1	174.5	266.0	356.5	420.0	422.2	406.1	392.0	380.2	373.7	372.7
67.5°	203.6	142.2	179.9	297.3	369.5	367.3	346.8	340.4	325.3	322.1	315.6
70°	150.8	94.8	124.9	241.3	319.9	314.5	298.3	290.8	276.8	269.2	265.0
72.5°	124.9	76.4	91.5	187.4	269.2	262.8	248.8	240.2	228.4	221.9	217.5
75°	101.3	80.8	70.0	138.9	218.7	214.3	201.4	192.8	183.1	174.5	175.5
77.5°	74.4	75.4	56.0	102.3	173.4	166.9	159.4	148.6	144.3	135.7	135.7
80°	56.0	59.3	42.0	70.0	124.9	124.9	118.4	111.0	103.4	99.1	99.1
82.5°	37.7	37.7	31.2	44.2	85.1	81.8	77.6	75.4	71.1	68.9	68.9
85°	17.3	21.5	19.4	26.9	46.3	48.5	48.5	46.3	45.2	43.1	44.2
87.5°	5.4	9.7	11.9	15.1	23.7	24.8	25.9	25.9	25.9	26.9	26.9
90°	3.3	5.9	8.6	9.2	14.5	21.6	25.1	22.3	16.8	12.6	12.6
92.5°	13.2	35.7	58.3	63.9	89.9	124.4	141.6	124.1	89.1	62.9	60.4
95°	31.8	73.0	114.2	124.5	221.0	349.7	414.1	369.5	280.4	213.5	206.0
97.5°	54.9	91.2	127.6	136.7	297.7	512.3	619.7	591.5	535.1	492.9	478.4
100°	72.8	105.8	138.7	146.9	325.6	563.8	682.9	685.0	689.1	692.1	674.9
102.5°	88.1	118.8	149.5	157.2	338.4	580.0	700.8	736.7	808.5	862.3	847.6
105°	113.9	139.9	166.0	172.5	347.9	581.9	698.8	779.2	940.2	1060.9	1053.0
107.5°	140.4	164.6	188.9	195.0	349.6	555.9	659.0	771.3	995.8	1164.2	1166.1
110°	158.2	180.1	202.1	207.6	347.1	533.0	625.9	751.4	1002.4	1190.6	1198.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	175.8	196.7	217.5	222.8	347.1	513.0	595.8	724.2	981.1	1173.7	1186.4
115°	202.3	221.5	240.8	245.6	350.3	490.0	559.8	683.5	930.9	1116.5	1134.0
117.5°	228.4	245.9	263.4	267.8	356.9	475.5	534.9	646.6	869.9	1037.4	1056.8
120°	243.6	260.1	276.6	280.7	362.2	470.7	525.0	627.0	831.0	984.1	1002.9
122.5°	258.5	275.1	291.7	295.9	369.7	468.1	517.4	609.2	793.0	930.8	949.5
125°	281.4	296.5	311.6	315.4	380.0	466.1	509.1	587.2	743.3	860.3	877.5
127.5°	299.9	315.2	330.4	334.3	390.3	464.9	502.1	569.2	703.2	803.7	818.2
130°	309.8	326.3	342.8	346.9	397.7	465.6	499.5	559.1	678.5	767.9	781.3
132.5°	320.1	336.5	353.1	357.2	403.8	466.1	497.2	550.6	657.4	737.5	749.4
135°	335.3	350.3	365.3	369.1	410.4	465.6	493.2	537.9	627.4	694.4	704.8
137.5°	350.9	365.8	380.6	384.3	420.4	468.5	492.6	530.4	606.0	662.7	671.1
140°	363.8	377.5	391.1	394.6	426.5	469.0	490.2	522.9	588.2	637.2	645.0
142.5°	373.7	386.3	399.0	402.1	431.5	470.6	490.2	518.9	576.3	619.4	626.2
145°	389.0	400.0	411.1	413.8	438.2	470.7	486.9	510.4	557.4	592.5	597.7
147.5°	404.1	414.9	425.7	428.3	447.8	473.9	486.9	505.4	542.3	570.0	574.2
150°	414.1	423.8	433.5	435.9	453.0	475.6	486.9	502.5	533.8	557.1	560.6
152.5°	424.4	431.8	439.1	440.9	456.3	476.7	486.9	500.3	526.8	546.8	549.5
155°	439.6	445.0	450.5	451.8	463.6	479.2	486.9	497.5	518.7	534.6	536.3
157.5°	450.8	456.1	461.4	462.8	470.8	481.6	486.9	495.1	511.6	524.0	525.2
160°	458.4	462.6	466.7	467.7	474.2	482.7	486.9	494.0	508.1	518.7	519.4
162.5°	466.1	469.2	472.2	473.0	477.7	483.9	486.9	492.9	504.8	513.8	514.4
165°	474.3	477.1	479.9	480.6	482.7	485.5	486.9	491.2	499.7	506.1	506.9
167.5°	482.0	483.2	484.6	484.9	486.7	489.0	490.2	493.0	498.7	502.8	503.2
170°	486.9	488.2	489.6	489.9	490.0	490.2	490.2	493.0	498.7	502.8	502.8
172.5°	489.6	489.9	490.2	490.2	490.2	490.2	490.2	492.5	496.9	500.2	499.9
175°	493.2	493.2	493.2	493.2	492.2	490.9	490.2	491.6	494.4	496.5	496.5
177.5°	493.2	493.2	493.2	493.2	492.4	491.4	490.9	492.0	494.2	495.9	495.5
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1167.6	1164.4	1167.6	1165.4	1166.4	1163.2	1153.5	1150.3	1153.5	1156.8	1156.8
5°	1181.5	1179.4	1181.5	1181.5	1180.5	1178.3	1167.6	1165.4	1167.6	1168.6	1166.4
7.5°	1185.9	1182.7	1185.9	1183.7	1183.7	1181.5	1170.8	1168.6	1169.7	1172.9	1169.7
10°	1185.9	1182.7	1185.9	1184.7	1183.7	1181.5	1170.8	1166.4	1166.4	1169.7	1166.4
12.5°	1180.5	1178.3	1180.5	1178.3	1178.3	1176.2	1165.4	1161.1	1162.2	1163.2	1158.9
15°	1171.8	1168.6	1171.8	1169.7	1170.8	1167.6	1155.7	1151.4	1151.4	1153.5	1146.0
17.5°	1158.9	1154.6	1158.9	1157.8	1156.8	1154.6	1143.9	1139.5	1138.5	1139.5	1134.2
20°	1143.9	1140.6	1143.9	1142.7	1142.7	1138.5	1127.7	1122.3	1122.3	1122.3	1116.9
22.5°	1120.2	1116.9	1120.2	1122.3	1122.3	1121.2	1111.5	1104.0	1101.9	1101.9	1095.4
25°	1093.2	1090.0	1093.2	1093.2	1092.2	1093.2	1090.0	1085.7	1082.4	1079.2	1072.7
27.5°	1067.3	1065.3	1067.3	1065.3	1067.3	1064.1	1063.1	1062.0	1057.7	1054.4	1045.8
30°	1041.5	1039.4	1041.5	1039.4	1037.2	1035.1	1029.7	1027.5	1031.9	1029.7	1015.7
32.5°	1009.2	1007.0	1009.2	1009.2	1007.0	1007.0	998.5	995.2	996.3	1002.8	989.9
35°	975.8	972.6	975.8	974.8	975.8	972.6	967.2	966.2	961.8	969.4	959.7
37.5°	937.0	933.8	937.0	937.0	937.0	939.2	934.9	931.6	925.2	934.9	927.4
40°	897.2	892.9	897.2	896.1	897.2	899.4	897.2	895.0	888.6	896.1	889.6
42.5°	852.0	850.9	852.0	853.0	853.0	857.4	860.6	856.2	854.2	848.7	853.0
45°	803.5	801.3	803.5	805.6	806.7	808.9	818.6	818.6	815.4	806.7	813.2
47.5°	751.8	746.4	751.8	758.3	758.3	761.5	771.2	778.7	773.4	762.5	765.8
50°	696.8	698.0	696.8	701.2	701.2	713.0	720.5	728.1	733.5	720.5	705.5
52.5°	643.0	641.9	643.0	646.3	650.5	656.0	668.9	676.4	685.0	677.5	653.8
55°	589.2	591.3	589.2	590.2	592.4	595.6	615.0	622.6	638.7	629.0	604.3
57.5°	535.3	532.1	535.3	537.4	538.6	541.8	557.9	571.9	581.6	582.7	552.5
60°	472.8	468.6	472.8	482.5	484.7	486.9	501.9	514.8	523.5	526.7	495.5
62.5°	417.9	410.3	417.9	424.4	428.6	434.0	444.9	464.2	471.8	472.8	428.6
65°	359.7	356.5	359.7	372.7	373.7	380.2	392.0	406.1	422.2	420.0	356.5
67.5°	307.0	307.0	307.0	315.6	322.1	325.3	340.4	346.8	367.3	369.5	297.3
70°	258.5	257.4	258.5	265.0	269.2	276.8	290.8	298.3	314.5	319.9	241.3
72.5°	212.2	211.1	212.2	217.5	221.9	228.4	240.2	248.8	262.8	269.2	187.4
75°	171.3	169.1	171.3	175.5	174.5	183.1	192.8	201.4	214.3	218.7	138.9
77.5°	131.4	131.4	131.4	135.7	135.7	144.3	148.6	159.4	166.9	173.4	102.3
80°	98.0	96.9	98.0	99.1	99.1	103.4	111.0	118.4	124.9	124.9	70.0
82.5°	68.9	66.8	68.9	68.9	68.9	71.1	75.4	77.6	81.8	85.1	44.2
85°	43.1	43.1	43.1	44.2	43.1	45.2	46.3	48.5	48.5	46.3	26.9
87.5°	28.0	26.9	28.0	26.9	26.9	25.9	25.9	25.9	24.8	23.7	15.1
90°	12.6	12.6	12.6	12.6	12.6	16.8	22.3	25.1	21.6	14.5	9.2
92.5°	50.3	40.4	50.3	60.4	62.9	89.1	124.1	141.6	124.4	89.9	63.9
95°	175.6	145.3	175.6	206.0	213.5	280.4	369.5	414.1	349.7	221.0	124.5
97.5°	420.8	363.1	420.8	478.4	492.9	535.1	591.5	619.7	512.3	297.7	136.7
100°	606.3	537.5	606.3	674.9	692.1	689.1	685.0	682.9	563.8	325.6	146.9
102.5°	788.7	729.8	788.7	847.6	862.3	808.5	736.7	700.8	580.0	338.4	157.2
105°	1021.3	989.7	1021.3	1053.0	1060.9	940.2	779.2	698.8	581.9	347.9	172.5
107.5°	1173.7	1181.4	1173.7	1166.1	1164.2	995.8	771.3	659.0	555.9	349.6	195.0
110°	1231.8	1264.8	1231.8	1198.9	1190.6	1002.4	751.4	625.9	533.0	347.1	207.6





TEST NUMBER: P934252

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1237.0	1287.6	1237.0	1186.4	1173.7	981.1	724.2	595.8	513.0	347.1	222.8
115°	1204.2	1274.4	1204.2	1134.0	1116.5	930.9	683.5	559.8	490.0	350.3	245.6
117.5°	1134.7	1212.5	1134.7	1056.8	1037.4	869.9	646.6	534.9	475.5	356.9	267.8
120°	1078.6	1154.2	1078.6	1002.9	984.1	831.0	627.0	525.0	470.7	362.2	280.7
122.5°	1024.1	1098.7	1024.1	949.5	930.8	793.0	609.2	517.4	468.1	369.7	295.9
125°	946.2	1014.9	946.2	877.5	860.3	743.3	587.2	509.1	466.1	380.0	315.4
127.5°	876.2	934.1	876.2	818.2	803.7	703.2	569.2	502.1	464.9	390.3	334.3
130°	834.9	888.4	834.9	781.3	767.9	678.5	559.1	499.5	465.6	397.7	346.9
132.5°	797.5	845.4	797.5	749.4	737.5	657.4	550.6	497.2	466.1	403.8	357.2
135°	746.1	787.5	746.1	704.8	694.4	627.4	537.9	493.2	465.6	410.4	369.1
137.5°	705.0	738.8	705.0	671.1	662.7	606.0	530.4	492.6	468.5	420.4	384.3
140°	676.7	708.3	676.7	645.0	637.2	588.2	522.9	490.2	469.0	426.5	394.6
142.5°	653.3	680.5	653.3	626.2	619.4	576.3	518.9	490.2	470.6	431.5	402.1
145°	618.3	638.9	618.3	597.7	592.5	557.4	510.4	486.9	470.7	438.2	413.8
147.5°	591.3	608.4	591.3	574.2	570.0	542.3	505.4	486.9	473.9	447.8	428.3
150°	574.4	588.2	574.4	560.6	557.1	533.8	502.5	486.9	475.6	453.0	435.9
152.5°	559.9	570.4	559.9	549.5	546.8	526.8	500.3	486.9	476.7	456.3	440.9
155°	543.2	550.1	543.2	536.3	534.6	518.7	497.5	486.9	479.2	463.6	451.8
157.5°	530.1	534.9	530.1	525.2	524.0	511.6	495.1	486.9	481.6	470.8	462.8
160°	522.2	525.0	522.2	519.4	518.7	508.1	494.0	486.9	482.7	474.2	467.7
162.5°	517.1	519.7	517.1	514.4	513.8	504.8	492.9	486.9	483.9	477.7	473.0
165°	509.6	512.4	509.6	506.9	506.1	499.7	491.2	486.9	485.5	482.7	480.6
167.5°	504.3	505.5	504.3	503.2	502.8	498.7	493.0	490.2	489.0	486.7	484.9
170°	502.8	502.8	502.8	502.8	502.8	498.7	493.0	490.2	490.2	490.0	489.9
172.5°	498.9	497.9	498.9	499.9	500.2	496.9	492.5	490.2	490.2	490.2	490.2
175°	496.5	496.5	496.5	496.5	496.5	494.4	491.6	490.2	490.9	492.2	493.2
177.5°	494.4	493.2	494.4	495.5	495.9	494.2	492.0	490.9	491.4	492.4	493.2
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934252

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1154.6	1148.1	1148.1	1137.4	1133.1	1129.8	1124.4	1108.3	1104.0	1099.7	1106.1
5°	1164.4	1152.5	1143.9	1124.4	1108.3	1101.9	1081.4	1042.6	1016.8	997.3	986.6
7.5°	1166.4	1151.4	1135.2	1105.1	1066.3	1049.0	986.6	915.5	896.1	878.9	868.1
10°	1164.4	1147.1	1124.4	1079.2	987.7	957.5	895.0	848.7	836.9	833.7	836.9
12.5°	1156.8	1140.6	1109.3	1034.0	905.8	885.4	848.7	821.8	819.6	825.0	854.2
15°	1143.9	1128.8	1092.2	973.6	860.6	845.5	819.6	810.0	821.8	859.5	946.7
17.5°	1130.9	1113.7	1068.5	914.5	826.1	815.4	797.1	816.4	883.2	933.8	962.9
20°	1113.7	1093.2	1041.5	871.3	801.3	791.7	783.0	870.3	920.9	939.2	955.3
22.5°	1093.2	1071.7	1004.9	841.2	775.5	768.0	773.4	900.4	920.9	933.8	947.8
25°	1066.3	1048.0	961.8	817.5	755.1	746.4	766.9	897.2	909.1	912.3	940.3
27.5°	1041.5	1017.8	916.6	795.9	730.2	727.0	772.2	883.2	891.8	895.0	925.2
30°	1011.4	975.8	866.0	773.4	704.4	703.3	773.4	866.0	863.8	872.5	902.6
32.5°	980.1	913.3	808.9	745.3	679.7	678.5	765.8	840.1	837.9	849.8	872.5
35°	951.1	864.9	731.3	713.0	648.4	649.5	747.5	810.0	811.0	821.8	835.8
37.5°	920.9	822.9	646.3	677.5	618.2	618.2	722.7	782.0	779.8	783.0	802.4
40°	885.4	757.1	570.9	631.2	590.2	587.0	692.6	751.8	744.2	743.2	770.1
42.5°	847.6	685.0	514.8	569.8	557.9	553.6	656.0	715.2	701.2	704.4	738.8
45°	806.7	665.6	471.8	481.5	524.5	521.3	616.1	673.2	663.4	672.1	707.6
47.5°	765.8	626.8	457.8	399.6	489.0	487.9	571.9	632.2	626.8	635.5	673.2
50°	709.8	583.8	456.7	342.5	449.1	453.5	519.1	592.4	592.4	599.9	639.8
52.5°	637.7	531.0	414.7	310.2	402.8	415.7	472.8	557.9	560.1	567.6	603.1
55°	571.9	476.1	384.5	285.4	347.9	375.9	427.6	522.4	526.7	534.2	566.5
57.5°	511.6	396.4	378.1	256.3	297.3	324.2	387.8	487.9	490.1	496.5	527.7
60°	446.9	286.5	346.8	225.1	253.1	273.6	351.2	446.9	454.5	458.8	485.7
62.5°	373.7	207.9	314.5	203.6	231.6	235.8	321.0	408.2	417.9	421.2	437.3
65°	266.0	174.5	267.1	185.3	208.9	210.1	288.7	368.3	377.0	382.4	394.2
67.5°	179.9	142.2	203.6	168.0	191.8	192.8	257.4	322.1	333.9	338.2	345.8
70°	124.9	94.8	150.8	149.7	172.3	174.5	224.0	280.0	290.8	294.1	298.3
72.5°	91.5	76.4	124.9	134.7	151.8	154.0	189.6	232.6	243.4	246.7	248.8
75°	70.0	80.8	101.3	117.4	129.3	130.3	155.1	189.6	197.1	199.2	200.3
77.5°	56.0	75.4	74.4	94.8	105.5	103.4	121.7	146.5	153.0	153.0	153.0
80°	42.0	59.3	56.0	67.9	77.6	75.4	87.2	104.5	106.6	108.8	107.7
82.5°	31.2	37.7	37.7	43.1	51.7	49.5	58.1	67.9	67.9	67.9	70.0
85°	19.4	21.5	17.3	22.6	29.1	28.0	32.3	36.6	37.7	37.7	35.6
87.5°	11.9	9.7	5.4	8.6	12.9	12.9	15.1	16.1	15.1	15.1	15.1
90°	8.6	5.9	3.3	5.9	8.6	9.2	14.5	21.6	25.1	22.3	16.8
92.5°	58.3	35.7	13.2	35.7	58.3	63.9	89.9	124.4	141.6	124.1	89.1
95°	114.2	73.0	31.8	73.0	114.2	124.5	221.0	349.7	414.1	369.5	280.4
97.5°	127.6	91.2	54.9	91.2	127.6	136.7	297.7	512.3	619.7	591.5	535.1
100°	138.7	105.8	72.8	105.8	138.7	146.9	325.6	563.8	682.9	685.0	689.1
102.5°	149.5	118.8	88.1	118.8	149.5	157.2	338.4	580.0	700.8	736.7	808.5
105°	166.0	139.9	113.9	139.9	166.0	172.5	347.9	581.9	698.8	779.2	940.2
107.5°	188.9	164.6	140.4	164.6	188.9	195.0	349.6	555.9	659.0	771.3	995.8
110°	202.1	180.1	158.2	180.1	202.1	207.6	347.1	533.0	625.9	751.4	1002.4



TEST NUMBER: P934252

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	217.5	196.7	175.8	196.7	217.5	222.8	347.1	513.0	595.8	724.2	981.1
115°	240.8	221.5	202.3	221.5	240.8	245.6	350.3	490.0	559.8	683.5	930.9
117.5°	263.4	245.9	228.4	245.9	263.4	267.8	356.9	475.5	534.9	646.6	869.9
120°	276.6	260.1	243.6	260.1	276.6	280.7	362.2	470.7	525.0	627.0	831.0
122.5°	291.7	275.1	258.5	275.1	291.7	295.9	369.7	468.1	517.4	609.2	793.0
125°	311.6	296.5	281.4	296.5	311.6	315.4	380.0	466.1	509.1	587.2	743.3
127.5°	330.4	315.2	299.9	315.2	330.4	334.3	390.3	464.9	502.1	569.2	703.2
130°	342.8	326.3	309.8	326.3	342.8	346.9	397.7	465.6	499.5	559.1	678.5
132.5°	353.1	336.5	320.1	336.5	353.1	357.2	403.8	466.1	497.2	550.6	657.4
135°	365.3	350.3	335.3	350.3	365.3	369.1	410.4	465.6	493.2	537.9	627.4
137.5°	380.6	365.8	350.9	365.8	380.6	384.3	420.4	468.5	492.6	530.4	606.0
140°	391.1	377.5	363.8	377.5	391.1	394.6	426.5	469.0	490.2	522.9	588.2
142.5°	399.0	386.3	373.7	386.3	399.0	402.1	431.5	470.6	490.2	518.9	576.3
145°	411.1	400.0	389.0	400.0	411.1	413.8	438.2	470.7	486.9	510.4	557.4
147.5°	425.7	414.9	404.1	414.9	425.7	428.3	447.8	473.9	486.9	505.4	542.3
150°	433.5	423.8	414.1	423.8	433.5	435.9	453.0	475.6	486.9	502.5	533.8
152.5°	439.1	431.8	424.4	431.8	439.1	440.9	456.3	476.7	486.9	500.3	526.8
155°	450.5	445.0	439.6	445.0	450.5	451.8	463.6	479.2	486.9	497.5	518.7
157.5°	461.4	456.1	450.8	456.1	461.4	462.8	470.8	481.6	486.9	495.1	511.6
160°	466.7	462.6	458.4	462.6	466.7	467.7	474.2	482.7	486.9	494.0	508.1
162.5°	472.2	469.2	466.1	469.2	472.2	473.0	477.7	483.9	486.9	492.9	504.8
165°	479.9	477.1	474.3	477.1	479.9	480.6	482.7	485.5	486.9	491.2	499.7
167.5°	484.6	483.2	482.0	483.2	484.6	484.9	486.7	489.0	490.2	493.0	498.7
170°	489.6	488.2	486.9	488.2	489.6	489.9	490.0	490.2	490.2	493.0	498.7
172.5°	490.2	489.9	489.6	489.9	490.2	490.2	490.2	490.2	490.2	492.5	496.9
175°	493.2	493.2	493.2	493.2	493.2	493.2	492.2	490.9	490.2	491.6	494.4
177.5°	493.2	493.2	493.2	493.2	493.2	493.2	492.4	491.4	490.9	492.0	494.2
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934252  
 CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1098.6	1095.4	1099.7	1087.8	1099.7	1095.4	1098.6	1106.1	1099.7	1104.0	1108.3
5°	964.0	958.6	941.4	927.4	941.4	958.6	964.0	986.6	997.3	1016.8	1042.6
7.5°	861.6	857.4	853.0	844.4	853.0	857.4	861.6	868.1	878.9	896.1	915.5
10°	839.1	840.1	846.6	845.5	846.6	840.1	839.1	836.9	833.7	836.9	848.7
12.5°	897.2	906.9	942.4	940.3	942.4	906.9	897.2	854.2	825.0	819.6	821.8
15°	964.0	967.2	974.8	975.8	974.8	967.2	964.0	946.7	859.5	821.8	810.0
17.5°	970.4	971.5	976.9	976.9	976.9	971.5	970.4	962.9	933.8	883.2	816.4
20°	965.0	967.2	978.0	980.1	978.0	967.2	965.0	955.3	939.2	920.9	870.3
22.5°	962.9	967.2	975.8	974.8	975.8	967.2	962.9	947.8	933.8	920.9	900.4
25°	952.1	952.1	953.2	954.3	953.2	952.1	952.1	940.3	912.3	909.1	897.2
27.5°	929.5	931.6	938.1	937.0	938.1	931.6	929.5	925.2	895.0	891.8	883.2
30°	909.1	906.9	901.5	897.2	901.5	906.9	909.1	902.6	872.5	863.8	866.0
32.5°	874.5	869.2	863.8	860.6	863.8	869.2	874.5	872.5	849.8	837.9	840.1
35°	833.7	834.7	833.7	830.4	833.7	834.7	833.7	835.8	821.8	811.0	810.0
37.5°	804.6	806.7	805.6	801.3	805.6	806.7	804.6	802.4	783.0	779.8	782.0
40°	774.4	775.5	774.4	771.2	774.4	775.5	774.4	770.1	743.2	744.2	751.8
42.5°	745.3	744.2	741.0	738.8	741.0	744.2	745.3	738.8	704.4	701.2	715.2
45°	711.9	713.0	706.6	703.3	706.6	713.0	711.9	707.6	672.1	663.4	673.2
47.5°	678.5	678.5	673.2	669.9	673.2	678.5	678.5	673.2	635.5	626.8	632.2
50°	643.0	641.9	634.4	633.3	634.4	641.9	643.0	639.8	599.9	592.4	592.4
52.5°	602.1	602.1	603.1	605.3	603.1	602.1	602.1	603.1	567.6	560.1	557.9
55°	566.5	567.6	575.2	577.3	575.2	567.6	566.5	566.5	534.2	526.7	522.4
57.5°	529.9	529.9	535.3	535.3	535.3	529.9	529.9	527.7	496.5	490.1	487.9
60°	487.9	490.1	494.4	493.3	494.4	490.1	487.9	485.7	458.8	454.5	446.9
62.5°	443.7	445.9	446.9	444.9	446.9	445.9	443.7	437.3	421.2	417.9	408.2
65°	397.4	399.6	400.7	398.5	400.7	399.6	397.4	394.2	382.4	377.0	368.3
67.5°	350.0	349.0	347.9	352.2	347.9	349.0	350.0	345.8	338.2	333.9	322.1
70°	301.6	301.6	300.5	302.7	300.5	301.6	301.6	298.3	294.1	290.8	280.0
72.5°	249.9	248.8	253.1	249.9	253.1	248.8	249.9	248.8	246.7	243.4	232.6
75°	199.2	201.4	199.2	202.5	199.2	201.4	199.2	200.3	199.2	197.1	189.6
77.5°	151.8	154.0	151.8	151.8	151.8	154.0	151.8	153.0	153.0	153.0	146.5
80°	107.7	106.6	106.6	105.5	106.6	106.6	107.7	107.7	108.8	106.6	104.5
82.5°	68.9	67.9	67.9	70.0	67.9	67.9	68.9	70.0	67.9	67.9	67.9
85°	37.7	38.8	36.6	36.6	36.6	38.8	37.7	35.6	37.7	37.7	36.6
87.5°	14.0	12.9	12.9	12.9	12.9	12.9	14.0	15.1	15.1	15.1	16.1
90°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	16.8	22.3	25.1	21.6
92.5°	62.9	60.4	50.3	40.4	50.3	60.4	62.9	89.1	124.1	141.6	124.4
95°	213.5	206.0	175.6	145.3	175.6	206.0	213.5	280.4	369.5	414.1	349.7
97.5°	492.9	478.4	420.8	363.1	420.8	478.4	492.9	535.1	591.5	619.7	512.3
100°	692.1	674.9	606.3	537.5	606.3	674.9	692.1	689.1	685.0	682.9	563.8
102.5°	862.3	847.6	788.7	729.8	788.7	847.6	862.3	808.5	736.7	700.8	580.0
105°	1060.9	1053.0	1021.3	989.7	1021.3	1053.0	1060.9	940.2	779.2	698.8	581.9
107.5°	1164.2	1166.1	1173.7	1181.4	1173.7	1166.1	1164.2	995.8	771.3	659.0	555.9
110°	1190.6	1198.9	1231.8	1264.8	1231.8	1198.9	1190.6	1002.4	751.4	625.9	533.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1173.7	1186.4	1237.0	1287.6	1237.0	1186.4	1173.7	981.1	724.2	595.8	513.0
115°	1116.5	1134.0	1204.2	1274.4	1204.2	1134.0	1116.5	930.9	683.5	559.8	490.0
117.5°	1037.4	1056.8	1134.7	1212.5	1134.7	1056.8	1037.4	869.9	646.6	534.9	475.5
120°	984.1	1002.9	1078.6	1154.2	1078.6	1002.9	984.1	831.0	627.0	525.0	470.7
122.5°	930.8	949.5	1024.1	1098.7	1024.1	949.5	930.8	793.0	609.2	517.4	468.1
125°	860.3	877.5	946.2	1014.9	946.2	877.5	860.3	743.3	587.2	509.1	466.1
127.5°	803.7	818.2	876.2	934.1	876.2	818.2	803.7	703.2	569.2	502.1	464.9
130°	767.9	781.3	834.9	888.4	834.9	781.3	767.9	678.5	559.1	499.5	465.6
132.5°	737.5	749.4	797.5	845.4	797.5	749.4	737.5	657.4	550.6	497.2	466.1
135°	694.4	704.8	746.1	787.5	746.1	704.8	694.4	627.4	537.9	493.2	465.6
137.5°	662.7	671.1	705.0	738.8	705.0	671.1	662.7	606.0	530.4	492.6	468.5
140°	637.2	645.0	676.7	708.3	676.7	645.0	637.2	588.2	522.9	490.2	469.0
142.5°	619.4	626.2	653.3	680.5	653.3	626.2	619.4	576.3	518.9	490.2	470.6
145°	592.5	597.7	618.3	638.9	618.3	597.7	592.5	557.4	510.4	486.9	470.7
147.5°	570.0	574.2	591.3	608.4	591.3	574.2	570.0	542.3	505.4	486.9	473.9
150°	557.1	560.6	574.4	588.2	574.4	560.6	557.1	533.8	502.5	486.9	475.6
152.5°	546.8	549.5	559.9	570.4	559.9	549.5	546.8	526.8	500.3	486.9	476.7
155°	534.6	536.3	543.2	550.1	543.2	536.3	534.6	518.7	497.5	486.9	479.2
157.5°	524.0	525.2	530.1	534.9	530.1	525.2	524.0	511.6	495.1	486.9	481.6
160°	518.7	519.4	522.2	525.0	522.2	519.4	518.7	508.1	494.0	486.9	482.7
162.5°	513.8	514.4	517.1	519.7	517.1	514.4	513.8	504.8	492.9	486.9	483.9
165°	506.1	506.9	509.6	512.4	509.6	506.9	506.1	499.7	491.2	486.9	485.5
167.5°	502.8	503.2	504.3	505.5	504.3	503.2	502.8	498.7	493.0	490.2	489.0
170°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	498.7	493.0	490.2	490.2
172.5°	500.2	499.9	498.9	497.9	498.9	499.9	500.2	496.9	492.5	490.2	490.2
175°	496.5	496.5	496.5	496.5	496.5	496.5	496.5	494.4	491.6	490.2	490.9
177.5°	495.9	495.5	494.4	493.2	494.4	495.5	495.9	494.2	492.0	490.9	491.4
180°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934252

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1124.4	1129.8	1133.1	1137.4	1148.1
5°	1081.4	1101.9	1108.3	1124.4	1143.9
7.5°	986.6	1049.0	1066.3	1105.1	1135.2
10°	895.0	957.5	987.7	1079.2	1124.4
12.5°	848.7	885.4	905.8	1034.0	1109.3
15°	819.6	845.5	860.6	973.6	1092.2
17.5°	797.1	815.4	826.1	914.5	1068.5
20°	783.0	791.7	801.3	871.3	1041.5
22.5°	773.4	768.0	775.5	841.2	1004.9
25°	766.9	746.4	755.1	817.5	961.8
27.5°	772.2	727.0	730.2	795.9	916.6
30°	773.4	703.3	704.4	773.4	866.0
32.5°	765.8	678.5	679.7	745.3	808.9
35°	747.5	649.5	648.4	713.0	731.3
37.5°	722.7	618.2	618.2	677.5	646.3
40°	692.6	587.0	590.2	631.2	570.9
42.5°	656.0	553.6	557.9	569.8	514.8
45°	616.1	521.3	524.5	481.5	471.8
47.5°	571.9	487.9	489.0	399.6	457.8
50°	519.1	453.5	449.1	342.5	456.7
52.5°	472.8	415.7	402.8	310.2	414.7
55°	427.6	375.9	347.9	285.4	384.5
57.5°	387.8	324.2	297.3	256.3	378.1
60°	351.2	273.6	253.1	225.1	346.8
62.5°	321.0	235.8	231.6	203.6	314.5
65°	288.7	210.1	208.9	185.3	267.1
67.5°	257.4	192.8	191.8	168.0	203.6
70°	224.0	174.5	172.3	149.7	150.8
72.5°	189.6	154.0	151.8	134.7	124.9
75°	155.1	130.3	129.3	117.4	101.3
77.5°	121.7	103.4	105.5	94.8	74.4
80°	87.2	75.4	77.6	67.9	56.0
82.5°	58.1	49.5	51.7	43.1	37.7
85°	32.3	28.0	29.1	22.6	17.3
87.5°	15.1	12.9	12.9	8.6	5.4
90°	14.5	9.2	8.6	5.9	3.3
92.5°	89.9	63.9	58.3	35.7	13.2
95°	221.0	124.5	114.2	73.0	31.8
97.5°	297.7	136.7	127.6	91.2	54.9
100°	325.6	146.9	138.7	105.8	72.8
102.5°	338.4	157.2	149.5	118.8	88.1
105°	347.9	172.5	166.0	139.9	113.9
107.5°	349.6	195.0	188.9	164.6	140.4
110°	347.1	207.6	202.1	180.1	158.2



TEST NUMBER: P934252

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	347.1	222.8	217.5	196.7	175.8
115°	350.3	245.6	240.8	221.5	202.3
117.5°	356.9	267.8	263.4	245.9	228.4
120°	362.2	280.7	276.6	260.1	243.6
122.5°	369.7	295.9	291.7	275.1	258.5
125°	380.0	315.4	311.6	296.5	281.4
127.5°	390.3	334.3	330.4	315.2	299.9
130°	397.7	346.9	342.8	326.3	309.8
132.5°	403.8	357.2	353.1	336.5	320.1
135°	410.4	369.1	365.3	350.3	335.3
137.5°	420.4	384.3	380.6	365.8	350.9
140°	426.5	394.6	391.1	377.5	363.8
142.5°	431.5	402.1	399.0	386.3	373.7
145°	438.2	413.8	411.1	400.0	389.0
147.5°	447.8	428.3	425.7	414.9	404.1
150°	453.0	435.9	433.5	423.8	414.1
152.5°	456.3	440.9	439.1	431.8	424.4
155°	463.6	451.8	450.5	445.0	439.6
157.5°	470.8	462.8	461.4	456.1	450.8
160°	474.2	467.7	466.7	462.6	458.4
162.5°	477.7	473.0	472.2	469.2	466.1
165°	482.7	480.6	479.9	477.1	474.3
167.5°	486.7	484.9	484.6	483.2	482.0
170°	490.0	489.9	489.6	488.2	486.9
172.5°	490.2	490.2	490.2	489.9	489.6
175°	492.2	493.2	493.2	493.2	493.2
177.5°	492.4	493.2	493.2	493.2	493.2
180°	493.2	493.2	493.2	493.2	493.2



TEST NUMBER: P934252  
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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	10.40	11.25	11.38	12.24	13.53	13.24	14.08	14.21	15.07	16.37
	3H	10.88	11.64	11.86	12.63	13.95	14.59	15.34	15.57	16.34	17.66
	4H	11.07	11.79	12.07	12.79	14.11	15.03	15.75	16.03	16.75	18.08
	6H	11.19	11.85	12.20	12.85	14.19	15.32	15.98	16.33	16.98	18.32
	8H	11.19	11.82	12.20	12.84	14.18	15.39	16.02	16.41	17.04	18.38
	12H	11.16	11.76	12.18	12.77	14.13	15.43	16.03	16.45	17.05	18.41
4H	2H	11.44	12.15	12.44	13.15	14.48	13.65	14.36	14.65	15.36	16.69
	3H	12.46	13.06	13.48	14.09	15.43	15.15	15.75	16.17	16.78	18.12
	4H	12.74	13.28	13.76	14.30	15.67	15.68	16.23	16.71	17.25	18.62
	6H	12.86	13.33	13.89	14.38	15.74	16.05	16.52	17.08	17.56	18.93
	8H	12.87	13.30	13.90	14.34	15.72	16.16	16.60	17.19	17.63	19.01
	12H	12.83	13.23	13.88	14.28	15.66	16.21	16.61	17.27	17.66	19.05
8H	4H	13.19	13.63	14.22	14.67	16.04	15.81	16.24	16.84	17.28	18.66
	6H	13.45	13.81	14.51	14.89	16.27	16.24	16.61	17.30	17.69	19.06
	8H	13.49	13.81	14.56	14.88	16.27	16.40	16.72	17.46	17.78	19.17
	12H	13.48	13.76	14.55	14.82	16.25	16.50	16.78	17.56	17.84	19.27
12H	4H	13.20	13.59	14.25	14.64	16.03	15.77	16.17	16.82	17.22	18.60
	6H	13.51	13.83	14.58	14.90	16.29	16.24	16.56	17.31	17.62	19.02
	8H	13.58	13.86	14.65	14.92	16.35	16.40	16.68	17.47	17.74	19.18