

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: P934652

Luminaire Tested: SQ4-FA-075U-050D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

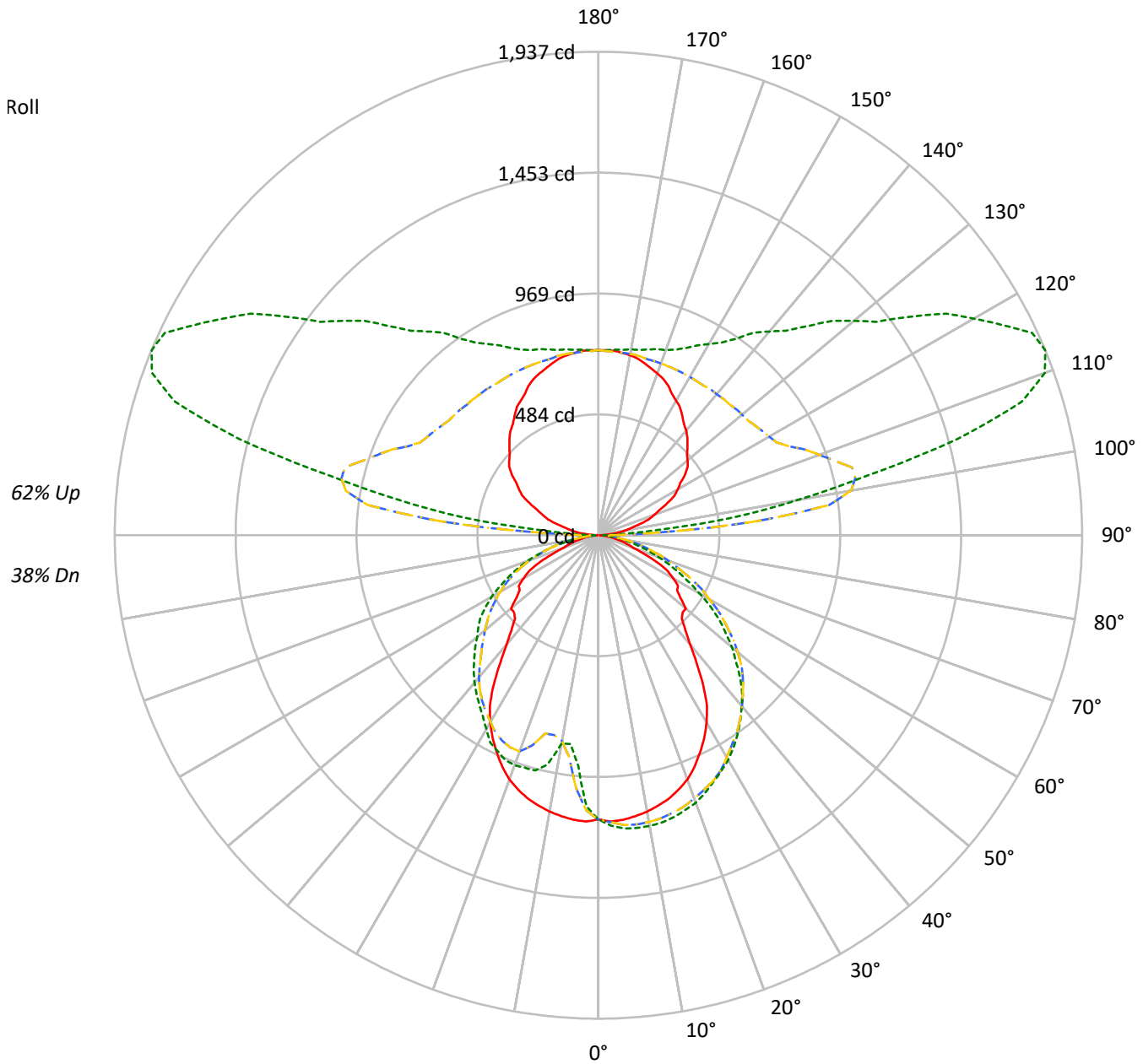
Test Method: LM-79-2019  
Report Number: P934652  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7763.4 lumens  
Efficiency: N/A  
Efficacy: 112.8 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°	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	1.3
10°-20°	291.8	3.8
20°-30°	451.0	5.8
30°-40°	538.4	6.9
40°-50°	541.6	7.0
50°-60°	471.3	6.1
60°-70°	334.1	4.3
70°-80°	176.8	2.3
80°-90°	46.9	0.6
90°-100°	361.6	4.7
100°-110°	950.6	12.2
110°-120°	985.7	12.7
120°-130°	790.7	10.2
130°-140°	620.4	8.0
140°-150°	476.2	6.1
150°-160°	342.9	4.4
160°-170°	209.8	2.7
170°-180°	70.9	0.9
0°-30°	845.6	10.9
0°-40°	1384.0	17.8
0°-60°	2396.9	30.9
0°-90°	2954.7	38.1
90°-120°	2297.9	29.6
90°-150°	4185.1	53.9
90°-180°	4809.0	61.9
0°-180°	7763.4	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°	5	19	5	19	5	5
95°	48	219	48	219	48	53
105°	171	1488	171	1488	171	182
115°	304	1917	304	1917	304	300
125°	423	1526	423	1526	423	376
135°	504	1184	504	1184	504	390
145°	585	961	585	961	585	366
155°	661	827	661	827	661	304
165°	713	771	713	771	713	201
175°	742	747	742	747	742	70
180°	742	742	742	742	742	



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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°	5.0	9.0	13.0	14.0	21.9	32.5	37.8	33.6	25.2	19.0	19.0
92.5°	19.9	53.8	87.7	96.1	135.1	187.1	213.1	186.8	134.1	94.6	90.8
95°	47.8	109.8	171.7	187.2	332.4	526.0	622.8	555.8	421.7	321.1	309.7
97.5°	82.6	137.3	192.0	205.6	447.8	770.6	932.0	889.6	804.8	741.3	719.6
100°	109.5	159.1	208.7	221.1	489.7	848.0	1027.0	1030.2	1036.4	1041.0	1015.2
102.5°	132.4	178.7	224.9	236.5	508.9	872.3	1053.9	1107.9	1215.9	1296.9	1274.8
105°	171.3	210.5	249.6	259.4	523.2	875.0	1051.0	1172.0	1414.0	1595.6	1583.7
107.5°	211.1	247.6	284.1	293.3	525.9	836.1	991.2	1160.0	1497.7	1750.9	1753.8
110°	238.0	270.9	303.9	312.1	521.9	801.6	941.4	1130.1	1507.6	1790.8	1803.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	264.3	295.7	327.1	335.0	522.0	771.4	896.1	1089.3	1475.7	1765.4	1784.4
115°	304.2	333.2	362.2	369.4	526.8	736.8	841.9	1027.9	1400.1	1679.2	1705.7
117.5°	343.5	369.9	396.2	402.8	536.7	715.2	804.5	972.4	1308.3	1560.2	1589.5
120°	366.4	391.1	416.0	422.1	544.6	707.9	789.6	943.0	1249.9	1480.1	1508.5
122.5°	388.8	413.9	438.8	445.1	556.1	704.1	778.1	916.3	1192.7	1400.0	1428.0
125°	423.2	446.0	468.7	474.4	571.5	700.9	765.7	883.1	1117.8	1293.9	1319.7
127.5°	451.0	474.1	497.1	502.8	587.0	699.2	755.2	856.0	1057.6	1208.8	1230.5
130°	466.0	490.7	515.5	521.7	598.2	700.3	751.3	841.0	1020.5	1155.0	1175.2
132.5°	481.4	506.2	531.0	537.2	607.4	700.9	747.8	828.1	988.7	1109.2	1127.3
135°	504.3	526.8	549.5	555.1	617.3	700.3	741.8	809.1	943.6	1044.5	1060.0
137.5°	527.7	550.1	572.4	578.0	632.3	704.6	740.8	797.6	911.4	996.7	1009.4
140°	547.2	567.7	588.3	593.4	641.4	705.4	737.3	786.5	884.7	958.4	970.3
142.5°	562.1	581.1	600.2	604.9	649.1	707.9	737.3	780.4	866.8	931.5	941.7
145°	585.0	601.6	618.1	622.3	659.0	707.9	732.3	767.7	838.3	891.2	898.9
147.5°	607.9	624.0	640.2	644.2	673.6	712.7	732.3	760.1	815.6	857.3	863.7
150°	622.8	637.4	652.0	655.6	681.2	715.3	732.3	755.8	802.7	837.9	843.1
152.5°	638.2	649.3	660.4	663.1	686.2	716.9	732.3	752.3	792.4	822.4	826.4
155°	661.1	669.3	677.5	679.6	697.2	720.6	732.3	748.2	780.1	804.0	806.6
157.5°	678.1	686.0	694.0	696.0	708.1	724.2	732.3	744.7	769.5	788.1	789.9
160°	689.5	695.7	701.9	703.4	713.1	725.9	732.3	742.9	764.2	780.1	781.2
162.5°	700.9	705.6	710.3	711.5	718.4	727.7	732.3	741.3	759.2	772.6	773.6
165°	713.4	717.6	721.8	722.9	726.0	730.2	732.3	738.8	751.6	761.2	762.3
167.5°	724.9	726.9	728.9	729.4	732.0	735.5	737.3	741.5	749.9	756.3	756.7
170°	732.3	734.3	736.4	736.8	737.0	737.2	737.3	741.5	749.9	756.3	756.3
172.5°	736.4	736.8	737.2	737.3	737.3	737.3	737.3	740.6	747.3	752.3	751.8
175°	741.8	741.8	741.8	741.8	740.3	738.3	737.3	739.4	743.7	746.8	746.8
177.5°	741.8	741.8	741.8	741.8	740.6	739.1	738.3	740.0	743.3	745.7	745.3
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



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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°	19.0	19.0	19.0	19.0	19.0	25.2	33.6	37.8	32.5	21.9	14.0
92.5°	75.8	60.7	75.8	90.8	94.6	134.1	186.8	213.1	187.1	135.1	96.1
95°	264.2	218.6	264.2	309.7	321.1	421.7	555.8	622.8	526.0	332.4	187.2
97.5°	632.8	546.1	632.8	719.6	741.3	804.8	889.6	932.0	770.6	447.8	205.6
100°	911.9	808.5	911.9	1015.2	1041.0	1036.4	1030.2	1027.0	848.0	489.7	221.1
102.5°	1186.3	1097.8	1186.3	1274.8	1296.9	1215.9	1107.9	1053.9	872.3	508.9	236.5
105°	1536.1	1488.5	1536.1	1583.7	1595.6	1414.0	1172.0	1051.0	875.0	523.2	259.4
107.5°	1765.3	1776.8	1765.3	1753.8	1750.9	1497.7	1160.0	991.2	836.1	525.9	293.3
110°	1852.8	1902.3	1852.8	1803.1	1790.8	1507.6	1130.1	941.4	801.6	521.9	312.1





TEST NUMBER: P934652

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1860.5	1936.6	1860.5	1784.4	1765.4	1475.7	1089.3	896.1	771.4	522.0	335.0
115°	1811.2	1916.7	1811.2	1705.7	1679.2	1400.1	1027.9	841.9	736.8	526.8	369.4
117.5°	1706.5	1823.6	1706.5	1589.5	1560.2	1308.3	972.4	804.5	715.2	536.7	402.8
120°	1622.3	1736.0	1622.3	1508.5	1480.1	1249.9	943.0	789.6	707.9	544.6	422.1
122.5°	1540.2	1652.3	1540.2	1428.0	1400.0	1192.7	916.3	778.1	704.1	556.1	445.1
125°	1423.1	1526.4	1423.1	1319.7	1293.9	1117.8	883.1	765.7	700.9	571.5	474.4
127.5°	1317.7	1404.9	1317.7	1230.5	1208.8	1057.6	856.0	755.2	699.2	587.0	502.8
130°	1255.7	1336.2	1255.7	1175.2	1155.0	1020.5	841.0	751.3	700.3	598.2	521.7
132.5°	1199.4	1271.5	1199.4	1127.3	1109.2	988.7	828.1	747.8	700.9	607.4	537.2
135°	1122.2	1184.3	1122.2	1060.0	1044.5	943.6	809.1	741.8	700.3	617.3	555.1
137.5°	1060.3	1111.2	1060.3	1009.4	996.7	911.4	797.6	740.8	704.6	632.3	578.0
140°	1017.9	1065.4	1017.9	970.3	958.4	884.7	786.5	737.3	705.4	641.4	593.4
142.5°	982.6	1023.6	982.6	941.7	931.5	866.8	780.4	737.3	707.9	649.1	604.9
145°	929.9	960.9	929.9	898.9	891.2	838.3	767.7	732.3	707.9	659.0	622.3
147.5°	889.3	915.0	889.3	863.7	857.3	815.6	760.1	732.3	712.7	673.6	644.2
150°	863.9	884.7	863.9	843.1	837.9	802.7	755.8	732.3	715.3	681.2	655.6
152.5°	842.0	857.8	842.0	826.4	822.4	792.4	752.3	732.3	716.9	686.2	663.1
155°	817.1	827.4	817.1	806.6	804.0	780.1	748.2	732.3	720.6	697.2	679.6
157.5°	797.2	804.5	797.2	789.9	788.1	769.5	744.7	732.3	724.2	708.1	696.0
160°	785.4	789.6	785.4	781.2	780.1	764.2	742.9	732.3	725.9	713.1	703.4
162.5°	777.6	781.6	777.6	773.6	772.6	759.2	741.3	732.3	727.7	718.4	711.5
165°	766.5	770.6	766.5	762.3	761.2	751.6	738.8	732.3	730.2	726.0	722.9
167.5°	758.4	760.2	758.4	756.7	756.3	749.9	741.5	737.3	735.5	732.0	729.4
170°	756.3	756.3	756.3	756.3	756.3	749.9	741.5	737.3	737.2	737.0	736.8
172.5°	750.3	748.8	750.3	751.8	752.3	747.3	740.6	737.3	737.3	737.3	737.3
175°	746.8	746.8	746.8	746.8	746.8	743.7	739.4	737.3	738.3	740.3	741.8
177.5°	743.6	741.8	743.6	745.3	745.7	743.3	740.0	738.3	739.1	740.6	741.8
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



TEST NUMBER: P934652

CATALOG NUMBER: SQ4-FA-075U-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°	13.0	9.0	5.0	9.0	13.0	14.0	21.9	32.5	37.8	33.6	25.2
92.5°	87.7	53.8	19.9	53.8	87.7	96.1	135.1	187.1	213.1	186.8	134.1
95°	171.7	109.8	47.8	109.8	171.7	187.2	332.4	526.0	622.8	555.8	421.7
97.5°	192.0	137.3	82.6	137.3	192.0	205.6	447.8	770.6	932.0	889.6	804.8
100°	208.7	159.1	109.5	159.1	208.7	221.1	489.7	848.0	1027.0	1030.2	1036.4
102.5°	224.9	178.7	132.4	178.7	224.9	236.5	508.9	872.3	1053.9	1107.9	1215.9
105°	249.6	210.5	171.3	210.5	249.6	259.4	523.2	875.0	1051.0	1172.0	1414.0
107.5°	284.1	247.6	211.1	247.6	284.1	293.3	525.9	836.1	991.2	1160.0	1497.7
110°	303.9	270.9	238.0	270.9	303.9	312.1	521.9	801.6	941.4	1130.1	1507.6



TEST NUMBER: P934652

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	327.1	295.7	264.3	295.7	327.1	335.0	522.0	771.4	896.1	1089.3	1475.7
115°	362.2	333.2	304.2	333.2	362.2	369.4	526.8	736.8	841.9	1027.9	1400.1
117.5°	396.2	369.9	343.5	369.9	396.2	402.8	536.7	715.2	804.5	972.4	1308.3
120°	416.0	391.1	366.4	391.1	416.0	422.1	544.6	707.9	789.6	943.0	1249.9
122.5°	438.8	413.9	388.8	413.9	438.8	445.1	556.1	704.1	778.1	916.3	1192.7
125°	468.7	446.0	423.2	446.0	468.7	474.4	571.5	700.9	765.7	883.1	1117.8
127.5°	497.1	474.1	451.0	474.1	497.1	502.8	587.0	699.2	755.2	856.0	1057.6
130°	515.5	490.7	466.0	490.7	515.5	521.7	598.2	700.3	751.3	841.0	1020.5
132.5°	531.0	506.2	481.4	506.2	531.0	537.2	607.4	700.9	747.8	828.1	988.7
135°	549.5	526.8	504.3	526.8	549.5	555.1	617.3	700.3	741.8	809.1	943.6
137.5°	572.4	550.1	527.7	550.1	572.4	578.0	632.3	704.6	740.8	797.6	911.4
140°	588.3	567.7	547.2	567.7	588.3	593.4	641.4	705.4	737.3	786.5	884.7
142.5°	600.2	581.1	562.1	581.1	600.2	604.9	649.1	707.9	737.3	780.4	866.8
145°	618.1	601.6	585.0	601.6	618.1	622.3	659.0	707.9	732.3	767.7	838.3
147.5°	640.2	624.0	607.9	624.0	640.2	644.2	673.6	712.7	732.3	760.1	815.6
150°	652.0	637.4	622.8	637.4	652.0	655.6	681.2	715.3	732.3	755.8	802.7
152.5°	660.4	649.3	638.2	649.3	660.4	663.1	686.2	716.9	732.3	752.3	792.4
155°	677.5	669.3	661.1	669.3	677.5	679.6	697.2	720.6	732.3	748.2	780.1
157.5°	694.0	686.0	678.1	686.0	694.0	696.0	708.1	724.2	732.3	744.7	769.5
160°	701.9	695.7	689.5	695.7	701.9	703.4	713.1	725.9	732.3	742.9	764.2
162.5°	710.3	705.6	700.9	705.6	710.3	711.5	718.4	727.7	732.3	741.3	759.2
165°	721.8	717.6	713.4	717.6	721.8	722.9	726.0	730.2	732.3	738.8	751.6
167.5°	728.9	726.9	724.9	726.9	728.9	729.4	732.0	735.5	737.3	741.5	749.9
170°	736.4	734.3	732.3	734.3	736.4	736.8	737.0	737.2	737.3	741.5	749.9
172.5°	737.2	736.8	736.4	736.8	737.2	737.3	737.3	737.3	737.3	740.6	747.3
175°	741.8	741.8	741.8	741.8	741.8	741.8	740.3	738.3	737.3	739.4	743.7
177.5°	741.8	741.8	741.8	741.8	741.8	741.8	740.6	739.1	738.3	740.0	743.3
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



TEST NUMBER: P934652

CATALOG NUMBER: SQ4-FA-075U-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°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.2	33.6	37.8	32.5
92.5°	94.6	90.8	75.8	60.7	75.8	90.8	94.6	134.1	186.8	213.1	187.1
95°	321.1	309.7	264.2	218.6	264.2	309.7	321.1	421.7	555.8	622.8	526.0
97.5°	741.3	719.6	632.8	546.1	632.8	719.6	741.3	804.8	889.6	932.0	770.6
100°	1041.0	1015.2	911.9	808.5	911.9	1015.2	1041.0	1036.4	1030.2	1027.0	848.0
102.5°	1296.9	1274.8	1186.3	1097.8	1186.3	1274.8	1296.9	1215.9	1107.9	1053.9	872.3
105°	1595.6	1583.7	1536.1	1488.5	1536.1	1583.7	1595.6	1414.0	1172.0	1051.0	875.0
107.5°	1750.9	1753.8	1765.3	1776.8	1765.3	1753.8	1750.9	1497.7	1160.0	991.2	836.1
110°	1790.8	1803.1	1852.8	1902.3	1852.8	1803.1	1790.8	1507.6	1130.1	941.4	801.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1765.4	1784.4	1860.5	1936.6	1860.5	1784.4	1765.4	1475.7	1089.3	896.1	771.4
115°	1679.2	1705.7	1811.2	1916.7	1811.2	1705.7	1679.2	1400.1	1027.9	841.9	736.8
117.5°	1560.2	1589.5	1706.5	1823.6	1706.5	1589.5	1560.2	1308.3	972.4	804.5	715.2
120°	1480.1	1508.5	1622.3	1736.0	1622.3	1508.5	1480.1	1249.9	943.0	789.6	707.9
122.5°	1400.0	1428.0	1540.2	1652.3	1540.2	1428.0	1400.0	1192.7	916.3	778.1	704.1
125°	1293.9	1319.7	1423.1	1526.4	1423.1	1319.7	1293.9	1117.8	883.1	765.7	700.9
127.5°	1208.8	1230.5	1317.7	1404.9	1317.7	1230.5	1208.8	1057.6	856.0	755.2	699.2
130°	1155.0	1175.2	1255.7	1336.2	1255.7	1175.2	1155.0	1020.5	841.0	751.3	700.3
132.5°	1109.2	1127.3	1199.4	1271.5	1199.4	1127.3	1109.2	988.7	828.1	747.8	700.9
135°	1044.5	1060.0	1122.2	1184.3	1122.2	1060.0	1044.5	943.6	809.1	741.8	700.3
137.5°	996.7	1009.4	1060.3	1111.2	1060.3	1009.4	996.7	911.4	797.6	740.8	704.6
140°	958.4	970.3	1017.9	1065.4	1017.9	970.3	958.4	884.7	786.5	737.3	705.4
142.5°	931.5	941.7	982.6	1023.6	982.6	941.7	931.5	866.8	780.4	737.3	707.9
145°	891.2	898.9	929.9	960.9	929.9	898.9	891.2	838.3	767.7	732.3	707.9
147.5°	857.3	863.7	889.3	915.0	889.3	863.7	857.3	815.6	760.1	732.3	712.7
150°	837.9	843.1	863.9	884.7	863.9	843.1	837.9	802.7	755.8	732.3	715.3
152.5°	822.4	826.4	842.0	857.8	842.0	826.4	822.4	792.4	752.3	732.3	716.9
155°	804.0	806.6	817.1	827.4	817.1	806.6	804.0	780.1	748.2	732.3	720.6
157.5°	788.1	789.9	797.2	804.5	797.2	789.9	788.1	769.5	744.7	732.3	724.2
160°	780.1	781.2	785.4	789.6	785.4	781.2	780.1	764.2	742.9	732.3	725.9
162.5°	772.6	773.6	777.6	781.6	777.6	773.6	772.6	759.2	741.3	732.3	727.7
165°	761.2	762.3	766.5	770.6	766.5	762.3	761.2	751.6	738.8	732.3	730.2
167.5°	756.3	756.7	758.4	760.2	758.4	756.7	756.3	749.9	741.5	737.3	735.5
170°	756.3	756.3	756.3	756.3	756.3	756.3	756.3	749.9	741.5	737.3	737.2
172.5°	752.3	751.8	750.3	748.8	750.3	751.8	752.3	747.3	740.6	737.3	737.3
175°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	743.7	739.4	737.3	738.3
177.5°	745.7	745.3	743.6	741.8	743.6	745.3	745.7	743.3	740.0	738.3	739.1
180°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8



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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°	21.9	14.0	13.0	9.0	5.0
92.5°	135.1	96.1	87.7	53.8	19.9
95°	332.4	187.2	171.7	109.8	47.8
97.5°	447.8	205.6	192.0	137.3	82.6
100°	489.7	221.1	208.7	159.1	109.5
102.5°	508.9	236.5	224.9	178.7	132.4
105°	523.2	259.4	249.6	210.5	171.3
107.5°	525.9	293.3	284.1	247.6	211.1
110°	521.9	312.1	303.9	270.9	238.0



TEST NUMBER: P934652

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	522.0	335.0	327.1	295.7	264.3
115°	526.8	369.4	362.2	333.2	304.2
117.5°	536.7	402.8	396.2	369.9	343.5
120°	544.6	422.1	416.0	391.1	366.4
122.5°	556.1	445.1	438.8	413.9	388.8
125°	571.5	474.4	468.7	446.0	423.2
127.5°	587.0	502.8	497.1	474.1	451.0
130°	598.2	521.7	515.5	490.7	466.0
132.5°	607.4	537.2	531.0	506.2	481.4
135°	617.3	555.1	549.5	526.8	504.3
137.5°	632.3	578.0	572.4	550.1	527.7
140°	641.4	593.4	588.3	567.7	547.2
142.5°	649.1	604.9	600.2	581.1	562.1
145°	659.0	622.3	618.1	601.6	585.0
147.5°	673.6	644.2	640.2	624.0	607.9
150°	681.2	655.6	652.0	637.4	622.8
152.5°	686.2	663.1	660.4	649.3	638.2
155°	697.2	679.6	677.5	669.3	661.1
157.5°	708.1	696.0	694.0	686.0	678.1
160°	713.1	703.4	701.9	695.7	689.5
162.5°	718.4	711.5	710.3	705.6	700.9
165°	726.0	722.9	721.8	717.6	713.4
167.5°	732.0	729.4	728.9	726.9	724.9
170°	737.0	736.8	736.4	734.3	732.3
172.5°	737.3	737.3	737.2	736.8	736.4
175°	740.3	741.8	741.8	741.8	741.8
177.5°	740.6	741.8	741.8	741.8	741.8
180°	741.8	741.8	741.8	741.8	741.8



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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	9.37	10.14	10.43	11.19	12.63	12.21	12.97	13.26	14.03	15.46
	3H	9.84	10.53	10.91	11.59	13.04	13.55	14.23	14.61	15.30	16.75
	4H	10.03	10.68	11.10	11.75	13.20	13.99	14.64	15.07	15.71	17.17
	6H	10.14	10.74	11.23	11.81	13.28	14.27	14.87	15.36	15.94	17.41
	8H	10.14	10.71	11.23	11.80	13.26	14.35	14.91	15.44	16.00	17.47
	12H	10.11	10.65	11.20	11.73	13.22	14.38	14.92	15.48	16.00	17.49
4H	2H	10.40	11.04	11.48	12.11	13.57	12.61	13.26	13.69	14.32	15.78
	3H	11.41	11.95	12.50	13.05	14.52	14.11	14.65	15.20	15.74	17.21
	4H	11.69	12.18	12.78	13.27	14.76	14.63	15.13	15.73	16.21	17.70
	6H	11.81	12.23	12.91	13.34	14.82	14.99	15.42	16.10	16.53	18.01
	8H	11.81	12.21	12.91	13.31	14.81	15.10	15.50	16.20	16.60	18.10
	12H	11.77	12.13	12.89	13.24	14.75	15.15	15.51	16.27	16.63	18.13
8H	4H	12.13	12.53	13.23	13.63	15.13	14.75	15.15	15.85	16.25	17.75
	6H	12.39	12.72	13.51	13.86	15.36	15.18	15.51	16.31	16.65	18.15
	8H	12.43	12.72	13.56	13.84	15.36	15.34	15.62	16.47	16.75	18.26
	12H	12.41	12.66	13.55	13.78	15.34	15.43	15.68	16.56	16.80	18.36
12H	4H	12.13	12.49	13.25	13.61	15.11	14.71	15.07	15.83	16.18	17.69
	6H	12.45	12.74	13.58	13.86	15.38	15.18	15.47	16.31	16.59	18.11
	8H	12.51	12.76	13.65	13.88	15.44	15.34	15.59	16.47	16.71	18.26