

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: P933852

Luminaire Tested: SQ4-FA-025U-050D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

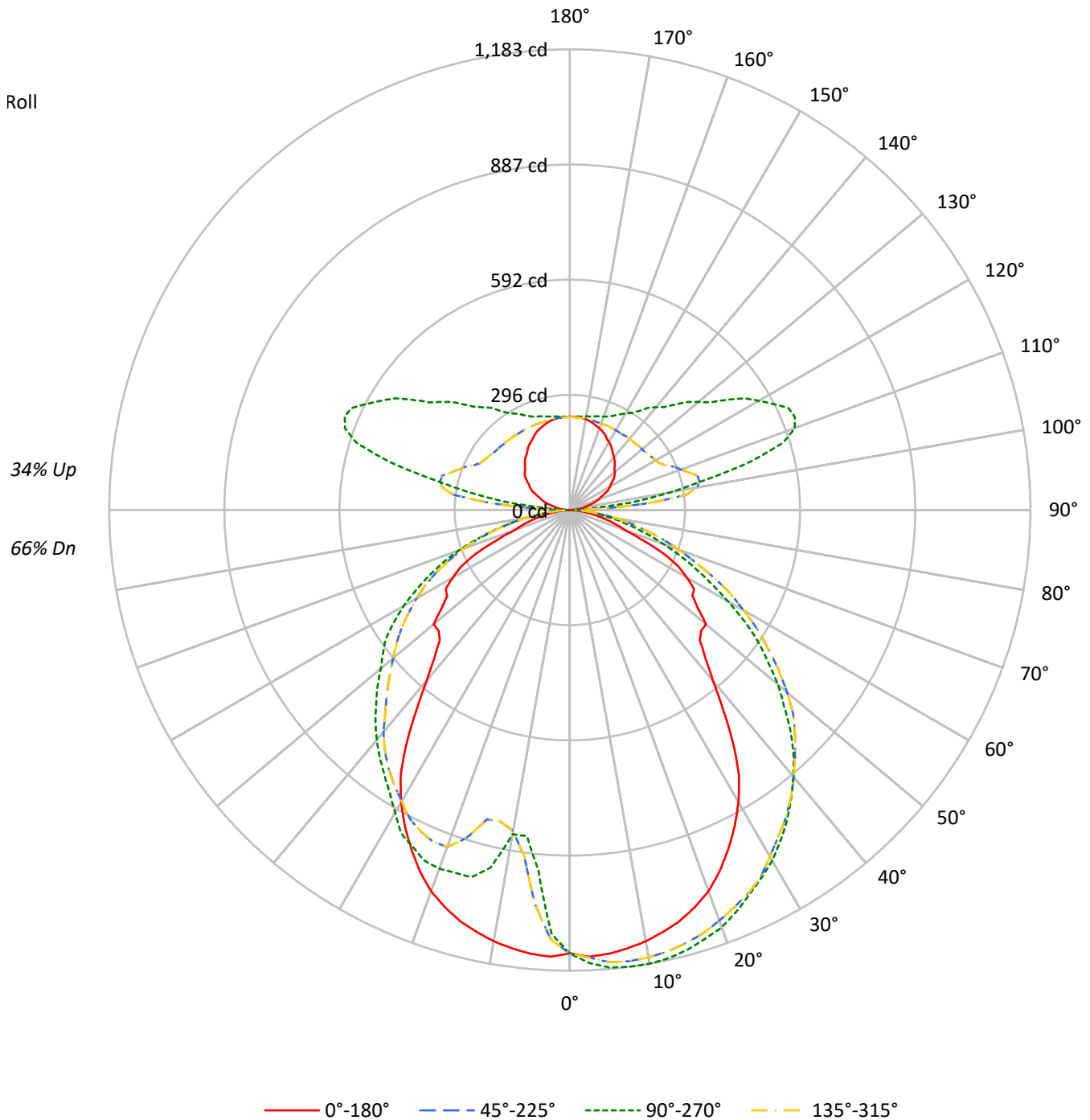
Test Method: LM-79-2019  
Report Number: P933852  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4506.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 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-Direct  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55				55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46				46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39				39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34				34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29				29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26				26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23				23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18				18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16				16

**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	2.3
10°-20°	291.8	6.5
20°-30°	451.0	10.0
30°-40°	538.4	11.9
40°-50°	541.6	12.0
50°-60°	471.3	10.5
60°-70°	334.1	7.4
70°-80°	176.8	3.9
80°-90°	44.9	1.0
90°-100°	116.8	2.6
100°-110°	307.2	6.8
110°-120°	318.5	7.1
120°-130°	255.5	5.7
130°-140°	200.4	4.4
140°-150°	153.9	3.4
150°-160°	110.8	2.5
160°-170°	67.8	1.5
170°-180°	22.9	0.5
0°-30°	845.6	18.8
0°-40°	1384.0	30.7
0°-60°	2396.9	53.2
0°-90°	2952.7	65.5
90°-120°	742.5	16.5
90°-150°	1352.2	30.0
90°-180°	1554.0	34.5
0°-180°	4506.5	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°	2	6	2	6	2	2
95°	15	71	15	71	15	17
105°	55	481	55	481	55	59
115°	98	619	98	619	98	97
125°	137	493	137	493	137	121
135°	163	383	163	383	163	126
145°	189	310	189	310	189	118
155°	214	267	214	267	214	98
165°	230	249	230	249	230	65
175°	240	241	240	241	240	23
180°	240	240	240	240	240	



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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°	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1	6.1	6.1
92.5°	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4	30.6	29.4
95°	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3	103.7	100.1
97.5°	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1	239.5	232.5
100°	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9	336.4	328.0
102.5°	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8	419.0	411.9
105°	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9	515.5	511.7
107.5°	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9	565.7	566.7
110°	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1	578.6	582.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7	570.4	576.6
115°	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4	542.6	551.1
117.5°	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7	504.1	513.6
120°	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8	478.2	487.3
122.5°	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4	452.3	461.4
125°	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2	418.0	426.4
127.5°	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8	390.6	397.6
130°	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7	373.2	379.7
132.5°	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4	358.4	364.2
135°	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9	337.5	342.5
137.5°	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5	322.0	326.1
140°	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9	309.6	313.5
142.5°	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1	301.0	304.3
145°	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9	288.0	290.4
147.5°	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5	277.0	279.0
150°	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4	270.7	272.4
152.5°	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0	265.7	267.0
155°	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1	259.8	260.6
157.5°	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6	254.6	255.2
160°	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9	252.1	252.4
162.5°	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3	249.7	250.0
165°	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8	246.0	246.3
167.5°	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3	244.4	244.5
170°	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3	244.4	244.4
172.5°	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5	243.1	242.9
175°	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3	241.3	241.3
177.5°	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2	241.0	240.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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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°	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5	7.1	4.5
92.5°	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5	43.7	31.1
95°	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9	107.4	60.5
97.5°	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9	144.6	66.4
100°	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9	158.2	71.4
102.5°	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9	164.5	76.4
105°	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7	169.1	83.8
107.5°	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1	169.9	94.8
110°	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0	168.6	100.9





TEST NUMBER: P933852

CATALOG NUMBER: SQ4-FA-025U-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°	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3	168.7	108.2
115°	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1	170.2	119.3
117.5°	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1	173.4	130.2
120°	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8	176.0	136.4
122.5°	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5	179.7	143.8
125°	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5	184.7	153.3
127.5°	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9	189.7	162.4
130°	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3	193.3	168.5
132.5°	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5	196.3	173.5
135°	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3	199.5	179.4
137.5°	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7	204.3	186.8
140°	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9	207.3	191.8
142.5°	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8	209.7	195.5
145°	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8	213.0	201.1
147.5°	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3	217.6	208.1
150°	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1	220.1	211.8
152.5°	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7	221.7	214.2
155°	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9	225.2	219.5
157.5°	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0	228.8	224.8
160°	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6	230.4	227.2
162.5°	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1	232.1	229.8
165°	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0	234.6	233.6
167.5°	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7	236.6	235.7
170°	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3	238.2	238.1
172.5°	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6	239.2	239.7
177.5°	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8	239.3	239.7
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933852

CATALOG NUMBER: SQ4-FA-025U-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°	4.2	2.9	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1
92.5°	28.3	17.3	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4
95°	55.5	35.4	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3
97.5°	62.0	44.4	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1
100°	67.4	51.4	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9
102.5°	72.7	57.7	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8
105°	80.7	68.0	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9
107.5°	91.8	80.0	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9
110°	98.2	87.5	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1



TEST NUMBER: P933852

CATALOG NUMBER: SQ4-FA-025U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	105.7	95.6	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7
115°	117.0	107.6	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4
117.5°	128.0	119.5	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7
120°	134.4	126.4	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8
122.5°	141.8	133.7	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4
125°	151.4	144.1	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2
127.5°	160.6	153.1	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8
130°	166.5	158.6	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7
132.5°	171.5	163.6	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4
135°	177.5	170.2	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9
137.5°	184.9	177.7	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5
140°	190.1	183.4	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9
142.5°	193.9	187.7	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1
145°	199.7	194.4	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9
147.5°	206.9	201.6	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5
150°	210.6	206.0	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4
152.5°	213.4	209.7	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0
155°	218.9	216.2	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1
157.5°	224.2	221.6	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6
160°	226.8	224.8	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9
162.5°	229.4	228.0	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3
165°	233.3	231.9	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8
167.5°	235.5	234.9	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3
170°	237.9	237.3	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3
172.5°	238.3	238.1	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5
175°	239.7	239.7	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3
177.5°	239.7	239.7	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933852

CATALOG NUMBER: SQ4-FA-025U-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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5
92.5°	30.6	29.4	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5
95°	103.7	100.1	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9
97.5°	239.5	232.5	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9
100°	336.4	328.0	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9
102.5°	419.0	411.9	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9
105°	515.5	511.7	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7
107.5°	565.7	566.7	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1
110°	578.6	582.6	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	570.4	576.6	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3
115°	542.6	551.1	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1
117.5°	504.1	513.6	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1
120°	478.2	487.3	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8
122.5°	452.3	461.4	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5
125°	418.0	426.4	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5
127.5°	390.6	397.6	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9
130°	373.2	379.7	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3
132.5°	358.4	364.2	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5
135°	337.5	342.5	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3
137.5°	322.0	326.1	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7
140°	309.6	313.5	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9
142.5°	301.0	304.3	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8
145°	288.0	290.4	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8
147.5°	277.0	279.0	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3
150°	270.7	272.4	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1
152.5°	265.7	267.0	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7
155°	259.8	260.6	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9
157.5°	254.6	255.2	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0
160°	252.1	252.4	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6
162.5°	249.7	250.0	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1
165°	246.0	246.3	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0
167.5°	244.4	244.5	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7
170°	244.4	244.4	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3
172.5°	243.1	242.9	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6
177.5°	241.0	240.8	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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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°	7.1	4.5	4.2	2.9	1.6
92.5°	43.7	31.1	28.3	17.3	6.4
95°	107.4	60.5	55.5	35.4	15.4
97.5°	144.6	66.4	62.0	44.4	26.7
100°	158.2	71.4	67.4	51.4	35.4
102.5°	164.5	76.4	72.7	57.7	42.8
105°	169.1	83.8	80.7	68.0	55.3
107.5°	169.9	94.8	91.8	80.0	68.2
110°	168.6	100.9	98.2	87.5	76.9



TEST NUMBER: P933852

CATALOG NUMBER: SQ4-FA-025U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	168.7	108.2	105.7	95.6	85.4
115°	170.2	119.3	117.0	107.6	98.3
117.5°	173.4	130.2	128.0	119.5	111.0
120°	176.0	136.4	134.4	126.4	118.4
122.5°	179.7	143.8	141.8	133.7	125.6
125°	184.7	153.3	151.4	144.1	136.8
127.5°	189.7	162.4	160.6	153.1	145.7
130°	193.3	168.5	166.5	158.6	150.6
132.5°	196.3	173.5	171.5	163.6	155.5
135°	199.5	179.4	177.5	170.2	162.9
137.5°	204.3	186.8	184.9	177.7	170.5
140°	207.3	191.8	190.1	183.4	176.7
142.5°	209.7	195.5	193.9	187.7	181.6
145°	213.0	201.1	199.7	194.4	189.0
147.5°	217.6	208.1	206.9	201.6	196.4
150°	220.1	211.8	210.6	206.0	201.2
152.5°	221.7	214.2	213.4	209.7	206.2
155°	225.2	219.5	218.9	216.2	213.6
157.5°	228.8	224.8	224.2	221.6	219.1
160°	230.4	227.2	226.8	224.8	222.8
162.5°	232.1	229.8	229.4	228.0	226.4
165°	234.6	233.6	233.3	231.9	230.5
167.5°	236.6	235.7	235.5	234.9	234.2
170°	238.2	238.1	237.9	237.3	236.6
172.5°	238.3	238.3	238.3	238.1	237.9
175°	239.2	239.7	239.7	239.7	239.7
177.5°	239.3	239.7	239.7	239.7	239.7
180°	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933852  
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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	11.91	12.93	12.72	13.77	14.80	14.75	15.77	15.56	16.60	17.63
	3H	12.40	13.32	13.22	14.16	15.22	16.11	17.02	16.93	17.87	18.93
	4H	12.60	13.46	13.44	14.31	15.38	16.56	17.43	17.40	18.28	19.35
	6H	12.73	13.52	13.58	14.38	15.47	16.86	17.65	17.71	18.51	19.60
	8H	12.73	13.49	13.59	14.37	15.45	16.94	17.70	17.80	18.57	19.66
	12H	12.71	13.43	13.58	14.30	15.41	16.98	17.71	17.85	18.58	19.69
4H	2H	12.96	13.83	13.81	14.68	15.75	15.18	16.04	16.02	16.89	17.96
	3H	14.01	14.73	14.86	15.61	16.70	16.70	17.42	17.56	18.30	19.39
	4H	14.29	14.95	15.16	15.83	16.94	17.24	17.89	18.11	18.77	19.89
	6H	14.42	14.99	15.31	15.90	17.01	17.61	18.18	18.50	19.08	20.20
	8H	14.43	14.96	15.32	15.86	16.99	17.72	18.25	18.61	19.15	20.28
	12H	14.41	14.88	15.32	15.80	16.94	17.79	18.27	18.70	19.19	20.32
8H	4H	14.76	15.29	15.65	16.19	17.31	17.37	17.90	18.26	18.80	19.93
	6H	15.03	15.46	15.94	16.41	17.53	17.82	18.26	18.73	19.20	20.33
	8H	15.07	15.46	16.00	16.39	17.54	17.97	18.36	18.90	19.30	20.44
	12H	15.06	15.40	15.99	16.33	17.53	18.08	18.42	19.01	19.35	20.55
12H	4H	14.77	15.25	15.68	16.17	17.30	17.35	17.82	18.25	18.74	19.88
	6H	15.09	15.48	16.01	16.41	17.56	17.82	18.21	18.74	19.14	20.29
	8H	15.16	15.50	16.09	16.43	17.63	17.99	18.33	18.92	19.26	20.45