

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: P934070

Luminaire Tested: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

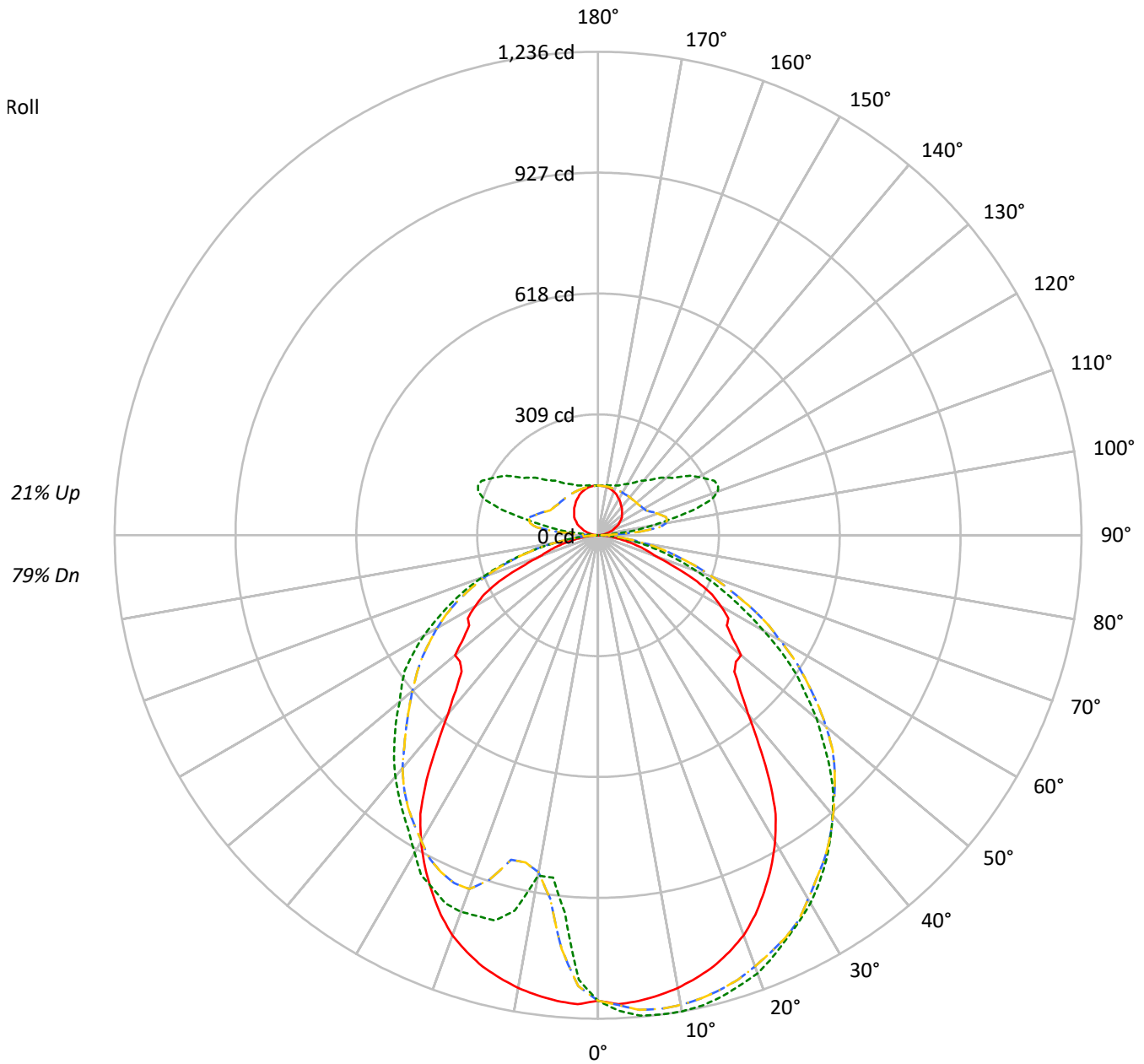
Test Method: LM-79-2019  
Report Number: P934070  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3909.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 38.8  
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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

	0°	90°	180°	270°
0°	11040	11040	11040	11040
5°	11111	11146	11111	8763
10°	11025	10979	11025	7849
15°	10892	10740	10892	8968
20°	10652	10459	10652	8988
25°	10174	10048	10174	8797
30°	9560	9707	9560	8379
35°	8509	9275	8509	7919
40°	7079	8767	7079	7572
45°	6313	8172	6313	7173
50°	6691	7464	6691	6772
55°	6278	6699	6278	6541
60°	6446	5689	6446	5990
65°	5818	4703	5818	5257
70°	4001	3749	4001	4407
75°	3469	2770	3469	3317
80°	2738	1831	2738	1994
85°	1490	970	1490	825

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9693 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	2.7
10°-20°	305.0	7.8
20°-30°	471.4	12.1
30°-40°	562.8	14.4
40°-50°	566.1	14.5
50°-60°	492.5	12.6
60°-70°	349.2	8.9
70°-80°	184.7	4.7
80°-90°	46.5	1.2
90°-100°	62.0	1.6
100°-110°	162.9	4.2
110°-120°	169.0	4.3
120°-130°	135.5	3.5
130°-140°	106.3	2.7
140°-150°	81.6	2.1
150°-160°	58.8	1.5
160°-170°	36.0	0.9
170°-180°	12.1	0.3
0°-30°	883.8	22.6
0°-40°	1446.5	37.0
0°-60°	2505.1	64.1
0°-90°	3085.6	78.9
90°-120°	393.9	10.1
90°-150°	717.3	18.3
90°-180°	824.0	21.1
0°-180°	3909.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1190	1190	1190	1190	1190	
5°	1196	1233	1196	969	1196	113
15°	1141	1221	1141	1020	1141	321
25°	1005	1139	1005	997	1005	462
35°	764	1016	764	868	764	473
45°	493	838	493	735	493	395
55°	402	618	402	603	402	369
65°	279	373	279	416	279	267
75°	106	177	106	212	106	111
85°	18	45	18	38	18	24
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	29	255	29	255	29	31
115°	52	328	52	328	52	51
125°	72	262	72	262	72	64
135°	86	203	86	203	86	67
145°	100	165	100	165	100	63
155°	113	142	113	142	113	52
165°	122	132	122	132	122	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1200.0	1200.0	1206.8	1209.0	1209.0	1205.6	1202.3	1205.6	1215.7	1219.1	1218.0
5°	1195.5	1204.5	1216.9	1219.1	1221.3	1220.2	1218.0	1220.2	1231.5	1233.8	1234.9
7.5°	1186.5	1203.4	1219.1	1222.5	1225.9	1222.5	1221.3	1223.6	1234.9	1237.1	1237.1
10°	1175.2	1198.8	1216.9	1219.1	1222.5	1219.1	1219.1	1223.6	1234.9	1237.1	1238.3
12.5°	1159.5	1192.1	1209.0	1211.3	1215.7	1214.6	1213.5	1218.0	1229.3	1231.5	1231.5
15°	1141.4	1179.8	1195.5	1197.7	1205.6	1203.4	1203.4	1207.9	1220.2	1223.6	1222.5
17.5°	1116.7	1164.0	1182.0	1185.4	1191.0	1189.8	1191.0	1195.5	1206.8	1209.0	1210.1
20°	1088.5	1142.6	1164.0	1167.3	1172.9	1172.9	1172.9	1178.6	1189.8	1194.3	1194.3
22.5°	1050.3	1120.0	1142.6	1144.8	1151.6	1151.6	1153.9	1161.7	1171.8	1172.9	1172.9
25°	1005.3	1095.3	1114.4	1121.2	1128.0	1131.3	1134.7	1139.2	1142.6	1141.4	1142.6
27.5°	958.0	1063.8	1088.5	1093.0	1102.1	1105.5	1109.9	1111.1	1112.2	1115.5	1113.3
30°	905.1	1019.8	1057.0	1061.5	1076.2	1078.4	1073.9	1076.2	1081.8	1084.1	1086.3
32.5°	845.4	954.6	1024.4	1034.5	1048.0	1041.2	1040.1	1043.5	1052.6	1052.6	1054.8
35°	764.3	904.0	994.0	1003.0	1013.1	1005.3	1009.7	1010.9	1016.5	1019.8	1018.7
37.5°	675.4	860.0	962.5	969.2	977.1	966.9	973.8	977.1	981.6	979.4	979.4
40°	596.7	791.3	925.4	929.8	936.6	928.7	935.4	937.7	939.9	937.7	936.6
42.5°	538.1	715.9	885.9	891.5	887.0	892.6	894.9	899.5	896.0	891.5	891.5
45°	493.1	695.7	843.1	849.9	843.1	852.2	855.5	855.5	845.4	843.1	842.0
47.5°	478.4	655.2	800.4	800.4	797.0	808.2	813.9	806.0	795.9	792.5	792.5
50°	477.3	610.1	741.8	737.3	753.1	766.6	761.0	753.1	745.2	732.8	732.8
52.5°	433.4	555.0	666.4	683.3	708.1	715.9	706.9	699.1	685.5	679.9	675.4
55°	401.9	497.6	597.8	631.5	657.4	667.5	650.7	642.7	622.5	619.1	616.8
57.5°	395.2	414.2	534.7	577.5	609.0	607.9	597.8	583.1	566.2	562.8	561.7
60°	362.4	299.4	467.2	517.8	550.5	547.1	538.1	524.6	508.8	506.6	504.3
62.5°	328.7	217.3	390.6	448.1	494.2	493.1	485.2	464.9	453.7	448.1	443.6
65°	279.2	182.3	278.0	372.6	439.0	441.3	424.4	409.7	397.4	390.6	389.4
67.5°	212.7	148.6	188.0	310.7	386.1	383.8	362.4	355.7	339.9	336.5	329.8
70°	157.6	99.1	130.6	252.2	334.3	328.7	311.8	303.9	289.3	281.4	276.9
72.5°	130.6	79.9	95.7	195.9	281.4	274.7	260.0	251.0	238.6	231.9	227.4
75°	105.8	84.4	73.2	145.2	228.5	224.0	210.5	201.5	191.4	182.3	183.5
77.5°	77.7	78.8	58.5	106.9	181.2	174.5	166.6	155.3	150.8	141.9	141.9
80°	58.5	61.9	43.9	73.2	130.6	130.6	123.8	116.0	108.0	103.6	103.6
82.5°	39.4	39.4	32.6	46.2	88.9	85.5	81.0	78.8	74.3	72.1	72.1
85°	18.0	22.5	20.3	28.1	48.4	50.7	50.7	48.4	47.3	45.0	46.2
87.5°	5.6	10.1	12.4	15.8	24.8	25.9	27.0	27.0	27.0	28.1	28.1
90°	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3	3.2	3.2
92.5°	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0	16.2	15.5
95°	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2	55.0	53.1
97.5°	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9	127.0	123.3
100°	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6	178.4	174.0
102.5°	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4	222.3	218.5
105°	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4	273.5	271.4
107.5°	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7	300.2	300.7
110°	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4	307.0	309.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0	302.6	305.9
115°	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0	287.8	292.3
117.5°	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2	267.4	272.5
120°	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3	253.7	258.6
122.5°	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4	239.9	244.7
125°	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6	221.8	226.2
127.5°	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3	207.2	211.0
130°	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9	198.0	201.4
132.5°	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5	190.2	193.2
135°	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7	179.0	181.6
137.5°	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2	170.8	173.0
140°	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7	164.3	166.3
142.5°	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6	159.7	161.5
145°	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6	152.8	154.1
147.5°	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8	147.0	148.1
150°	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6	143.6	144.5
152.5°	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8	141.0	141.7
155°	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8	137.9	138.3
157.5°	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9	135.0	135.4
160°	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0	133.7	133.8
162.5°	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1	132.4	132.6
165°	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8	130.4	130.6
167.5°	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5	129.6	129.7
170°	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5	129.6	129.6
172.5°	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1	128.9	128.8
175°	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5	128.0	128.0
177.5°	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4	127.8	127.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1220.2	1216.9	1220.2	1218.0	1219.1	1215.7	1205.6	1202.3	1205.6	1209.0	1209.0
5°	1234.9	1232.7	1234.9	1234.9	1233.8	1231.5	1220.2	1218.0	1220.2	1221.3	1219.1
7.5°	1239.4	1236.0	1239.4	1237.1	1237.1	1234.9	1223.6	1221.3	1222.5	1225.9	1222.5
10°	1239.4	1236.0	1239.4	1238.3	1237.1	1234.9	1223.6	1219.1	1219.1	1222.5	1219.1
12.5°	1233.8	1231.5	1233.8	1231.5	1231.5	1229.3	1218.0	1213.5	1214.6	1215.7	1211.3
15°	1224.8	1221.3	1224.8	1222.5	1223.6	1220.2	1207.9	1203.4	1203.4	1205.6	1197.7
17.5°	1211.3	1206.8	1211.3	1210.1	1209.0	1206.8	1195.5	1191.0	1189.8	1191.0	1185.4
20°	1195.5	1192.1	1195.5	1194.3	1194.3	1189.8	1178.6	1172.9	1172.9	1172.9	1167.3
22.5°	1170.7	1167.3	1170.7	1172.9	1172.9	1171.8	1161.7	1153.9	1151.6	1151.6	1144.8
25°	1142.6	1139.2	1142.6	1142.6	1141.4	1142.6	1139.2	1134.7	1131.3	1128.0	1121.2
27.5°	1115.5	1113.3	1115.5	1113.3	1115.5	1112.2	1111.1	1109.9	1105.5	1102.1	1093.0
30°	1088.5	1086.3	1088.5	1086.3	1084.1	1081.8	1076.2	1073.9	1078.4	1076.2	1061.5
32.5°	1054.8	1052.6	1054.8	1054.8	1052.6	1052.6	1043.5	1040.1	1041.2	1048.0	1034.5
35°	1019.8	1016.5	1019.8	1018.7	1019.8	1016.5	1010.9	1009.7	1005.3	1013.1	1003.0
37.5°	979.4	976.0	979.4	979.4	979.4	981.6	977.1	973.8	966.9	977.1	969.2
40°	937.7	933.2	937.7	936.6	937.7	939.9	937.7	935.4	928.7	936.6	929.8
42.5°	890.4	889.3	890.4	891.5	891.5	896.0	899.5	894.9	892.6	887.0	891.5
45°	839.7	837.5	839.7	842.0	843.1	845.4	855.5	855.5	852.2	843.1	849.9
47.5°	785.7	780.1	785.7	792.5	792.5	795.9	806.0	813.9	808.2	797.0	800.4
50°	728.3	729.5	728.3	732.8	732.8	745.2	753.1	761.0	766.6	753.1	737.3
52.5°	672.1	670.9	672.1	675.4	679.9	685.5	699.1	706.9	715.9	708.1	683.3
55°	615.7	618.0	615.7	616.8	619.1	622.5	642.7	650.7	667.5	657.4	631.5
57.5°	559.5	556.1	559.5	561.7	562.8	566.2	583.1	597.8	607.9	609.0	577.5
60°	494.2	489.6	494.2	504.3	506.6	508.8	524.6	538.1	547.1	550.5	517.8
62.5°	436.7	428.9	436.7	443.6	448.1	453.7	464.9	485.2	493.1	494.2	448.1
65°	376.0	372.6	376.0	389.4	390.6	397.4	409.7	424.4	441.3	439.0	372.6
67.5°	320.9	320.9	320.9	329.8	336.5	339.9	355.7	362.4	383.8	386.1	310.7
70°	270.2	269.1	270.2	276.9	281.4	289.3	303.9	311.8	328.7	334.3	252.2
72.5°	221.8	220.7	221.8	227.4	231.9	238.6	251.0	260.0	274.7	281.4	195.9
75°	179.0	176.7	179.0	183.5	182.3	191.4	201.5	210.5	224.0	228.5	145.2
77.5°	137.3	137.3	137.3	141.9	141.9	150.8	155.3	166.6	174.5	181.2	106.9
80°	102.4	101.3	102.4	103.6	103.6	108.0	116.0	123.8	130.6	130.6	73.2
82.5°	72.1	69.8	72.1	72.1	72.1	74.3	78.8	81.0	85.5	88.9	46.2
85°	45.0	45.0	45.0	46.2	45.0	47.3	48.4	50.7	50.7	48.4	28.1
87.5°	29.3	28.1	29.3	28.1	28.1	27.0	27.0	27.0	25.9	24.8	15.8
90°	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5	3.7	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1	23.2	16.4
95°	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1	57.0	32.1
97.5°	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1	76.8	35.3
100°	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4	83.9	37.9
102.5°	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5	87.2	40.6
105°	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0	89.7	44.5
107.5°	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3	90.1	50.3
110°	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4	89.5	53.5





TEST NUMBER: P934070

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2	89.5	57.4
115°	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4	90.3	63.3
117.5°	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6	92.0	69.0
120°	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3	93.3	72.3
122.5°	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6	95.3	76.3
125°	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1	98.0	81.4
127.5°	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8	100.6	86.2
130°	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0	102.6	89.5
132.5°	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1	104.1	92.1
135°	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0	105.8	95.2
137.5°	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7	108.4	99.1
140°	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9	109.9	101.7
142.5°	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3	111.3	103.7
145°	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3	113.0	106.7
147.5°	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2	115.4	110.4
150°	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6	116.7	112.4
152.5°	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9	117.6	113.7
155°	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5	119.5	116.5
157.5°	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1	121.3	119.3
160°	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4	122.2	120.6
162.5°	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7	123.1	121.9
165°	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2	124.4	123.9
167.5°	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0	125.4	125.0
170°	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4	126.3	126.3
172.5°	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5	126.9	127.1
177.5°	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7	126.9	127.1
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P934070

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1206.8	1200.0	1200.0	1188.7	1184.2	1180.9	1175.2	1158.4	1153.9	1149.3	1156.1
5°	1216.9	1204.5	1195.5	1175.2	1158.4	1151.6	1130.2	1089.7	1062.6	1042.4	1031.2
7.5°	1219.1	1203.4	1186.5	1155.0	1114.4	1096.4	1031.2	956.9	936.6	918.5	907.3
10°	1216.9	1198.8	1175.2	1128.0	1032.3	1000.8	935.4	887.0	874.7	871.3	874.7
12.5°	1209.0	1192.1	1159.5	1080.7	946.7	925.4	887.0	858.9	856.7	862.3	892.6
15°	1195.5	1179.8	1141.4	1017.6	899.5	883.7	856.7	846.5	858.9	898.3	989.5
17.5°	1182.0	1164.0	1116.7	955.7	863.4	852.2	833.0	853.3	923.1	976.0	1006.4
20°	1164.0	1142.6	1088.5	910.7	837.5	827.4	818.3	909.6	962.5	981.6	998.5
22.5°	1142.6	1120.0	1050.3	879.2	810.5	802.6	808.2	941.1	962.5	976.0	990.6
25°	1114.4	1095.3	1005.3	854.4	789.1	780.1	801.5	937.7	950.1	953.5	982.7
27.5°	1088.5	1063.8	958.0	831.9	763.2	759.8	807.1	923.1	932.1	935.4	966.9
30°	1057.0	1019.8	905.1	808.2	736.2	735.1	808.2	905.1	902.8	911.8	943.3
32.5°	1024.4	954.6	845.4	779.0	710.3	709.2	800.4	878.1	875.8	888.2	911.8
35°	994.0	904.0	764.3	745.2	677.7	678.8	781.2	846.5	847.7	858.9	873.6
37.5°	962.5	860.0	675.4	708.1	646.2	646.2	755.3	817.2	815.0	818.3	838.6
40°	925.4	791.3	596.7	659.6	616.8	613.5	723.9	785.7	777.9	776.8	804.9
42.5°	885.9	715.9	538.1	595.5	583.1	578.6	685.5	747.5	732.8	736.2	772.3
45°	843.1	695.7	493.1	503.2	548.2	544.9	643.9	703.6	693.4	702.5	739.6
47.5°	800.4	655.2	478.4	417.7	511.0	509.9	597.8	660.8	655.2	664.1	703.6
50°	741.8	610.1	477.3	358.0	469.5	473.9	542.6	619.1	619.1	627.0	668.6
52.5°	666.4	555.0	433.4	324.2	421.0	434.5	494.2	583.1	585.3	593.2	630.4
55°	597.8	497.6	401.9	298.3	363.6	392.9	446.9	546.0	550.5	558.3	592.1
57.5°	534.7	414.2	395.2	268.0	310.7	338.8	405.2	509.9	512.2	519.0	551.6
60°	467.2	299.4	362.4	235.2	264.5	285.9	367.0	467.2	475.1	479.5	507.7
62.5°	390.6	217.3	328.7	212.7	242.1	246.6	335.4	426.6	436.7	440.1	457.0
65°	278.0	182.3	279.2	193.7	218.4	219.5	301.7	385.0	394.0	399.6	412.0
67.5°	188.0	148.6	212.7	175.6	200.4	201.5	269.1	336.5	349.0	353.5	361.3
70°	130.6	99.1	157.6	156.5	180.1	182.3	234.1	292.7	303.9	307.3	311.8
72.5°	95.7	79.9	130.6	140.8	158.7	160.9	198.1	243.2	254.4	257.8	260.0
75°	73.2	84.4	105.8	122.7	135.0	136.2	162.1	198.1	206.0	208.2	209.3
77.5°	58.5	78.8	77.7	99.1	110.3	108.0	127.2	153.1	159.8	159.8	159.8
80°	43.9	61.9	58.5	70.9	81.0	78.8	91.2	109.2	111.4	113.7	112.5
82.5°	32.6	39.4	39.4	45.0	54.0	51.8	60.7	70.9	70.9	70.9	73.2
85°	20.3	22.5	18.0	23.6	30.4	29.3	33.7	38.3	39.4	39.4	37.1
87.5°	12.4	10.1	5.6	9.0	13.5	13.5	15.8	16.9	15.8	15.8	15.8
90°	2.2	1.5	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3
92.5°	15.0	9.2	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0
95°	29.5	18.8	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2
97.5°	32.9	23.5	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9
100°	35.8	27.3	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6
102.5°	38.6	30.6	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4
105°	42.8	36.1	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4
107.5°	48.7	42.4	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7
110°	52.1	46.4	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4



TEST NUMBER: P934070

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.1	50.7	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0
115°	62.0	57.1	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0
117.5°	67.9	63.4	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2
120°	71.3	67.1	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3
122.5°	75.1	70.9	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4
125°	80.3	76.4	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6
127.5°	85.2	81.3	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3
130°	88.4	84.1	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9
132.5°	91.1	86.8	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5
135°	94.2	90.3	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7
137.5°	98.2	94.3	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2
140°	100.9	97.3	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7
142.5°	102.8	99.6	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6
145°	106.0	103.1	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6
147.5°	109.7	106.9	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8
150°	111.8	109.2	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6
152.5°	113.1	111.3	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8
155°	116.1	114.7	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8
157.5°	118.9	117.6	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9
160°	120.3	119.2	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0
162.5°	121.8	120.9	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1
165°	123.7	122.9	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8
167.5°	124.9	124.6	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5
170°	126.2	125.8	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5
172.5°	126.4	126.3	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1
175°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5
177.5°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P934070  
 CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1148.2	1144.8	1149.3	1136.9	1149.3	1144.8	1148.2	1156.1	1149.3	1153.9	1158.4
5°	1007.5	1001.9	983.9	969.2	983.9	1001.9	1007.5	1031.2	1042.4	1062.6	1089.7
7.5°	900.6	896.0	891.5	882.5	891.5	896.0	900.6	907.3	918.5	936.6	956.9
10°	876.9	878.1	884.8	883.7	884.8	878.1	876.9	874.7	871.3	874.7	887.0
12.5°	937.7	947.8	985.0	982.7	985.0	947.8	937.7	892.6	862.3	856.7	858.9
15°	1007.5	1010.9	1018.7	1019.8	1018.7	1010.9	1007.5	989.5	898.3	858.9	846.5
17.5°	1014.2	1015.4	1021.0	1021.0	1021.0	1015.4	1014.2	1006.4	976.0	923.1	853.3
20°	1008.6	1010.9	1022.1	1024.4	1022.1	1010.9	1008.6	998.5	981.6	962.5	909.6
22.5°	1006.4	1010.9	1019.8	1018.7	1019.8	1010.9	1006.4	990.6	976.0	962.5	941.1
25°	995.1	995.1	996.2	997.4	996.2	995.1	995.1	982.7	953.5	950.1	937.7
27.5°	971.5	973.8	980.5	979.4	980.5	973.8	971.5	966.9	935.4	932.1	923.1
30°	950.1	947.8	942.2	937.7	942.2	947.8	950.1	943.3	911.8	902.8	905.1
32.5°	914.0	908.4	902.8	899.5	902.8	908.4	914.0	911.8	888.2	875.8	878.1
35°	871.3	872.4	871.3	867.9	871.3	872.4	871.3	873.6	858.9	847.7	846.5
37.5°	840.9	843.1	842.0	837.5	842.0	843.1	840.9	838.6	818.3	815.0	817.2
40°	809.4	810.5	809.4	806.0	809.4	810.5	809.4	804.9	776.8	777.9	785.7
42.5°	779.0	777.9	774.5	772.3	774.5	777.9	779.0	772.3	736.2	732.8	747.5
45°	744.1	745.2	738.4	735.1	738.4	745.2	744.1	739.6	702.5	693.4	703.6
47.5°	709.2	709.2	703.6	700.2	703.6	709.2	709.2	703.6	664.1	655.2	660.8
50°	672.1	670.9	663.0	661.9	663.0	670.9	672.1	668.6	627.0	619.1	619.1
52.5°	629.3	629.3	630.4	632.6	630.4	629.3	629.3	630.4	593.2	585.3	583.1
55°	592.1	593.2	601.1	603.4	601.1	593.2	592.1	592.1	558.3	550.5	546.0
57.5°	553.8	553.8	559.5	559.5	559.5	553.8	553.8	551.6	519.0	512.2	509.9
60°	509.9	512.2	516.7	515.5	516.7	512.2	509.9	507.7	479.5	475.1	467.2
62.5°	463.7	466.0	467.2	464.9	467.2	466.0	463.7	457.0	440.1	436.7	426.6
65°	415.4	417.7	418.8	416.5	418.8	417.7	415.4	412.0	399.6	394.0	385.0
67.5°	365.8	364.7	363.6	368.1	363.6	364.7	365.8	361.3	353.5	349.0	336.5
70°	315.2	315.2	314.0	316.3	314.0	315.2	315.2	311.8	307.3	303.9	292.7
72.5°	261.1	260.0	264.5	261.1	264.5	260.0	261.1	260.0	257.8	254.4	243.2
75°	208.2	210.5	208.2	211.6	208.2	210.5	208.2	209.3	208.2	206.0	198.1
77.5°	158.7	160.9	158.7	158.7	158.7	160.9	158.7	159.8	159.8	159.8	153.1
80°	112.5	111.4	111.4	110.3	111.4	111.4	112.5	112.5	113.7	111.4	109.2
82.5°	72.1	70.9	70.9	73.2	70.9	70.9	72.1	73.2	70.9	70.9	70.9
85°	39.4	40.6	38.3	38.3	38.3	40.6	39.4	37.1	39.4	39.4	38.3
87.5°	14.7	13.5	13.5	13.5	13.5	13.5	14.7	15.8	15.8	15.8	16.9
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1
95°	55.0	53.1	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1
97.5°	127.0	123.3	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1
100°	178.4	174.0	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4
102.5°	222.3	218.5	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5
105°	273.5	271.4	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0
107.5°	300.2	300.7	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3
110°	307.0	309.1	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	302.6	305.9	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2
115°	287.8	292.3	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4
117.5°	267.4	272.5	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6
120°	253.7	258.6	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3
122.5°	239.9	244.7	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6
125°	221.8	226.2	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1
127.5°	207.2	211.0	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8
130°	198.0	201.4	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0
132.5°	190.2	193.2	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1
135°	179.0	181.6	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0
137.5°	170.8	173.0	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7
140°	164.3	166.3	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9
142.5°	159.7	161.5	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3
145°	152.8	154.1	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3
147.5°	147.0	148.1	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2
150°	143.6	144.5	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6
152.5°	141.0	141.7	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9
155°	137.9	138.3	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5
157.5°	135.0	135.4	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1
160°	133.7	133.8	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4
162.5°	132.4	132.6	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7
165°	130.4	130.6	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2
167.5°	129.6	129.7	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0
170°	129.6	129.6	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4
172.5°	128.9	128.8	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5
177.5°	127.8	127.7	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1175.2	1180.9	1184.2	1188.7	1200.0
5°	1130.2	1151.6	1158.4	1175.2	1195.5
7.5°	1031.2	1096.4	1114.4	1155.0	1186.5
10°	935.4	1000.8	1032.3	1128.0	1175.2
12.5°	887.0	925.4	946.7	1080.7	1159.5
15°	856.7	883.7	899.5	1017.6	1141.4
17.5°	833.0	852.2	863.4	955.7	1116.7
20°	818.3	827.4	837.5	910.7	1088.5
22.5°	808.2	802.6	810.5	879.2	1050.3
25°	801.5	780.1	789.1	854.4	1005.3
27.5°	807.1	759.8	763.2	831.9	958.0
30°	808.2	735.1	736.2	808.2	905.1
32.5°	800.4	709.2	710.3	779.0	845.4
35°	781.2	678.8	677.7	745.2	764.3
37.5°	755.3	646.2	646.2	708.1	675.4
40°	723.9	613.5	616.8	659.6	596.7
42.5°	685.5	578.6	583.1	595.5	538.1
45°	643.9	544.9	548.2	503.2	493.1
47.5°	597.8	509.9	511.0	417.7	478.4
50°	542.6	473.9	469.5	358.0	477.3
52.5°	494.2	434.5	421.0	324.2	433.4
55°	446.9	392.9	363.6	298.3	401.9
57.5°	405.2	338.8	310.7	268.0	395.2
60°	367.0	285.9	264.5	235.2	362.4
62.5°	335.4	246.6	242.1	212.7	328.7
65°	301.7	219.5	218.4	193.7	279.2
67.5°	269.1	201.5	200.4	175.6	212.7
70°	234.1	182.3	180.1	156.5	157.6
72.5°	198.1	160.9	158.7	140.8	130.6
75°	162.1	136.2	135.0	122.7	105.8
77.5°	127.2	108.0	110.3	99.1	77.7
80°	91.2	78.8	81.0	70.9	58.5
82.5°	60.7	51.8	54.0	45.0	39.4
85°	33.7	29.3	30.4	23.6	18.0
87.5°	15.8	13.5	13.5	9.0	5.6
90°	3.7	2.4	2.2	1.5	0.9
92.5°	23.2	16.4	15.0	9.2	3.4
95°	57.0	32.1	29.5	18.8	8.2
97.5°	76.8	35.3	32.9	23.5	14.1
100°	83.9	37.9	35.8	27.3	18.7
102.5°	87.2	40.6	38.6	30.6	22.7
105°	89.7	44.5	42.8	36.1	29.4
107.5°	90.1	50.3	48.7	42.4	36.2
110°	89.5	53.5	52.1	46.4	40.8



TEST NUMBER: P934070

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	89.5	57.4	56.1	50.7	45.3
115°	90.3	63.3	62.0	57.1	52.1
117.5°	92.0	69.0	67.9	63.4	58.9
120°	93.3	72.3	71.3	67.1	62.8
122.5°	95.3	76.3	75.1	70.9	66.6
125°	98.0	81.4	80.3	76.4	72.5
127.5°	100.6	86.2	85.2	81.3	77.3
130°	102.6	89.5	88.4	84.1	79.8
132.5°	104.1	92.1	91.1	86.8	82.6
135°	105.8	95.2	94.2	90.3	86.5
137.5°	108.4	99.1	98.2	94.3	90.5
140°	109.9	101.7	100.9	97.3	93.8
142.5°	111.3	103.7	102.8	99.6	96.4
145°	113.0	106.7	106.0	103.1	100.3
147.5°	115.4	110.4	109.7	106.9	104.2
150°	116.7	112.4	111.8	109.2	106.8
152.5°	117.6	113.7	113.1	111.3	109.4
155°	119.5	116.5	116.1	114.7	113.3
157.5°	121.3	119.3	118.9	117.6	116.2
160°	122.2	120.6	120.3	119.2	118.2
162.5°	123.1	121.9	121.8	120.9	120.1
165°	124.4	123.9	123.7	122.9	122.3
167.5°	125.4	125.0	124.9	124.6	124.2
170°	126.3	126.3	126.2	125.8	125.5
172.5°	126.4	126.4	126.4	126.3	126.2
175°	126.9	127.1	127.1	127.1	127.1
177.5°	126.9	127.1	127.1	127.1	127.1
180°	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P934070  
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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	15.47	16.67	16.13	17.35	18.14	18.27	19.47	18.93	20.15	20.93
	3H	15.97	17.05	16.65	17.74	18.56	19.63	20.71	20.31	21.40	22.22
	4H	16.18	17.20	16.88	17.90	18.73	20.08	21.10	20.78	21.80	22.63
	6H	16.32	17.26	17.03	17.96	18.81	20.38	21.32	21.09	22.02	22.87
	8H	16.33	17.22	17.05	17.95	18.80	20.46	21.35	21.18	22.08	22.93
	12H	16.31	17.16	17.04	17.89	18.77	20.50	21.36	21.23	22.08	22.96
4H	2H	16.54	17.55	17.24	18.25	19.09	18.72	19.74	19.42	20.44	21.27
	3H	17.59	18.44	18.31	19.18	20.03	20.25	21.09	20.96	21.83	22.68
	4H	17.88	18.65	18.61	19.39	20.28	20.78	21.55	21.51	22.29	23.17
	6H	18.03	18.70	18.78	19.46	20.35	21.16	21.83	21.91	22.59	23.48
	8H	18.04	18.67	18.79	19.43	20.33	21.27	21.89	22.02	22.65	23.56
	12H	18.03	18.59	18.80	19.37	20.28	21.34	21.90	22.11	22.68	23.59
8H	4H	18.36	18.98	19.11	19.74	20.65	20.93	21.56	21.69	22.32	23.22
	6H	18.64	19.15	19.42	19.95	20.86	21.38	21.89	22.16	22.70	23.60
	8H	18.68	19.14	19.47	19.94	20.87	21.53	21.99	22.32	22.79	23.71
	12H	18.68	19.09	19.48	19.88	20.86	21.64	22.04	22.43	22.83	23.81
12H	4H	18.38	18.94	19.15	19.72	20.63	20.92	21.48	21.69	22.26	23.17
	6H	18.70	19.16	19.49	19.96	20.88	21.38	21.84	22.17	22.64	23.56
	8H	18.78	19.18	19.57	19.98	20.96	21.55	21.95	22.34	22.75	23.73