

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: P934870

Luminaire Tested: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

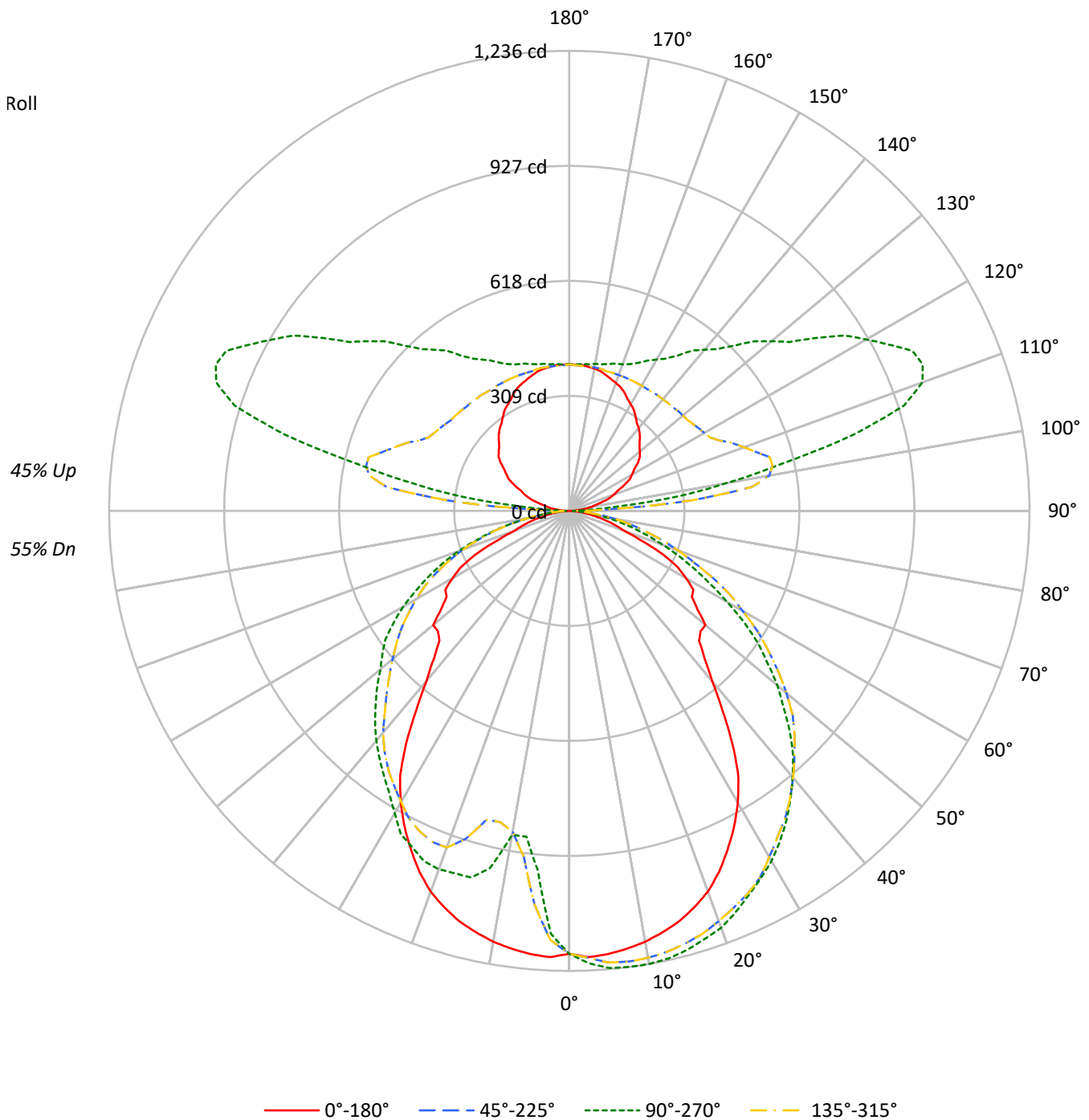
Test Method: LM-79-2019  
Report Number: P934870  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5637.7 lumens  
Efficiency: N/A  
Efficacy: 110.1 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: General Diffuse  
  
Input Watts (W): 51.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	22	18	16	14

**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	1.9
10°-20°	305.0	5.4
20°-30°	471.4	8.4
30°-40°	562.8	10.0
40°-50°	566.1	10.0
50°-60°	492.5	8.7
60°-70°	349.2	6.2
70°-80°	184.7	3.3
80°-90°	47.5	0.8
90°-100°	191.8	3.4
100°-110°	504.3	8.9
110°-120°	522.9	9.3
120°-130°	419.5	7.4
130°-140°	329.1	5.8
140°-150°	252.6	4.5
150°-160°	181.9	3.2
160°-170°	111.3	2.0
170°-180°	37.6	0.7
0°-30°	883.8	15.7
0°-40°	1446.5	25.7
0°-60°	2505.1	44.4
0°-90°	3086.6	54.7
90°-120°	1219.1	21.6
90°-150°	2220.3	39.4
90°-180°	2551.0	45.2
0°-180°	5637.7	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°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	790	91	790	91	96
115°	161	1017	161	1017	161	159
125°	224	810	224	810	224	199
135°	268	628	268	628	268	207
145°	310	510	310	510	310	194
155°	351	439	351	439	351	161
165°	378	409	378	409	378	107
175°	394	396	394	396	394	37
180°	394	394	394	394	394	



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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°	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4	10.1	10.1
92.5°	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1	50.2	48.2
95°	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6	170.3	164.3
97.5°	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0	393.3	381.8
100°	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8	552.3	538.5
102.5°	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0	688.0	676.2
105°	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2	846.5	840.2
107.5°	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5	928.9	930.4
110°	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8	950.0	956.5



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CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8	936.5	946.7
115°	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8	890.9	904.8
117.5°	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0	827.7	843.2
120°	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1	785.2	800.3
122.5°	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7	742.7	757.6
125°	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1	686.5	700.2
127.5°	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1	641.3	652.9
130°	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4	612.8	623.4
132.5°	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6	588.5	598.0
135°	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6	554.1	562.4
137.5°	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5	528.8	535.5
140°	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3	508.4	514.7
142.5°	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8	494.2	499.6
145°	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7	472.8	476.9
147.5°	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7	454.8	458.2
150°	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8	444.5	447.2
152.5°	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4	436.3	438.4
155°	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8	426.5	427.9
157.5°	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2	418.1	419.0
160°	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5	413.9	414.4
162.5°	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7	409.9	410.4
165°	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7	403.8	404.4
167.5°	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9	401.2	401.5
170°	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9	401.2	401.2
172.5°	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4	399.1	398.9
175°	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5	396.2	396.2
177.5°	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3	395.7	395.4
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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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°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3	11.7	7.4
92.5°	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3	71.7	50.9
95°	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0	176.4	99.3
97.5°	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8	237.5	109.1
100°	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9	259.8	117.2
102.5°	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8	270.0	125.4
105°	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3	277.6	137.6
107.5°	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6	279.0	155.6
110°	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2	276.9	165.6





TEST NUMBER: P934870

CATALOG NUMBER: SQ4-FA-075U-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°	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3	277.0	177.7
115°	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9	279.5	196.0
117.5°	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4	284.7	213.7
120°	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6	288.9	224.0
122.5°	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5	295.0	236.1
125°	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9	303.2	251.7
127.5°	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0	311.4	266.8
130°	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5	317.4	276.8
132.5°	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9	322.2	285.0
135°	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6	327.5	294.5
137.5°	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9	335.4	306.6
140°	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2	340.3	314.8
142.5°	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6	344.3	320.9
145°	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6	349.6	330.2
147.5°	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1	357.3	341.7
150°	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5	361.4	347.9
152.5°	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3	364.1	351.8
155°	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3	369.9	360.5
157.5°	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3	375.6	369.3
160°	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1	378.3	373.2
162.5°	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0	381.1	377.4
165°	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4	385.2	383.5
167.5°	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2	388.3	386.9
170°	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1	391.0	390.9
172.5°	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7	392.8	393.5
177.5°	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1	392.9	393.5
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934870  
 CATALOG NUMBER: SQ4-FA-075U-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°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4
92.5°	46.4	28.5	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1
95°	91.2	58.3	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6
97.5°	101.8	72.8	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0
100°	110.7	84.3	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8
102.5°	119.3	94.8	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0
105°	132.4	111.6	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2
107.5°	150.7	131.4	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5
110°	161.3	143.7	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8



TEST NUMBER: P934870

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.6	156.9	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8
115°	192.1	176.7	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8
117.5°	210.2	196.2	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0
120°	220.7	207.5	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1
122.5°	232.8	219.6	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7
125°	248.7	236.6	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1
127.5°	263.7	251.5	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1
130°	273.5	260.4	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4
132.5°	281.7	268.6	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6
135°	291.5	279.5	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6
137.5°	303.7	291.8	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5
140°	312.1	301.2	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3
142.5°	318.3	308.3	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8
145°	327.9	319.2	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7
147.5°	339.6	331.0	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7
150°	345.9	338.2	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8
152.5°	350.3	344.5	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4
155°	359.4	355.1	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8
157.5°	368.2	364.0	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2
160°	372.3	369.1	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5
162.5°	376.8	374.4	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7
165°	382.9	380.7	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7
167.5°	386.6	385.5	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9
170°	390.6	389.5	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9
172.5°	391.1	390.9	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4
175°	393.5	393.5	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5
177.5°	393.5	393.5	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934870  
 CATALOG NUMBER: SQ4-FA-075U-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°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3
92.5°	50.2	48.2	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3
95°	170.3	164.3	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0
97.5°	393.3	381.8	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8
100°	552.3	538.5	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9
102.5°	688.0	676.2	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8
105°	846.5	840.2	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3
107.5°	928.9	930.4	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6
110°	950.0	956.5	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2



TEST NUMBER: P934870

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	936.5	946.7	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3
115°	890.9	904.8	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9
117.5°	827.7	843.2	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4
120°	785.2	800.3	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6
122.5°	742.7	757.6	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5
125°	686.5	700.2	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9
127.5°	641.3	652.9	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0
130°	612.8	623.4	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5
132.5°	588.5	598.0	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9
135°	554.1	562.4	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6
137.5°	528.8	535.5	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9
140°	508.4	514.7	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2
142.5°	494.2	499.6	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6
145°	472.8	476.9	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6
147.5°	454.8	458.2	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1
150°	444.5	447.2	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5
152.5°	436.3	438.4	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3
155°	426.5	427.9	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3
157.5°	418.1	419.0	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3
160°	413.9	414.4	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1
162.5°	409.9	410.4	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0
165°	403.8	404.4	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4
167.5°	401.2	401.5	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2
170°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1
172.5°	399.1	398.9	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7
177.5°	395.7	395.4	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934870

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**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°	11.7	7.4	6.9	4.8	2.6
92.5°	71.7	50.9	46.4	28.5	10.6
95°	176.4	99.3	91.2	58.3	25.4
97.5°	237.5	109.1	101.8	72.8	43.9
100°	259.8	117.2	110.7	84.3	58.1
102.5°	270.0	125.4	119.3	94.8	70.3
105°	277.6	137.6	132.4	111.6	90.8
107.5°	279.0	155.6	150.7	131.4	112.0
110°	276.9	165.6	161.3	143.7	126.3



TEST NUMBER: P934870

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	277.0	177.7	173.6	156.9	140.2
115°	279.5	196.0	192.1	176.7	161.4
117.5°	284.7	213.7	210.2	196.2	182.2
120°	288.9	224.0	220.7	207.5	194.4
122.5°	295.0	236.1	232.8	219.6	206.3
125°	303.2	251.7	248.7	236.6	224.5
127.5°	311.4	266.8	263.7	251.5	239.3
130°	317.4	276.8	273.5	260.4	247.3
132.5°	322.2	285.0	281.7	268.6	255.4
135°	327.5	294.5	291.5	279.5	267.5
137.5°	335.4	306.6	303.7	291.8	280.0
140°	340.3	314.8	312.1	301.2	290.3
142.5°	344.3	320.9	318.3	308.3	298.2
145°	349.6	330.2	327.9	319.2	310.3
147.5°	357.3	341.7	339.6	331.0	322.5
150°	361.4	347.9	345.9	338.2	330.4
152.5°	364.1	351.8	350.3	344.5	338.6
155°	369.9	360.5	359.4	355.1	350.8
157.5°	375.6	369.3	368.2	364.0	359.7
160°	378.3	373.2	372.3	369.1	365.8
162.5°	381.1	377.4	376.8	374.4	371.9
165°	385.2	383.5	382.9	380.7	378.5
167.5°	388.3	386.9	386.6	385.5	384.5
170°	391.0	390.9	390.6	389.5	388.5
172.5°	391.2	391.2	391.1	390.9	390.6
175°	392.8	393.5	393.5	393.5	393.5
177.5°	392.9	393.5	393.5	393.5	393.5
180°	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934870  
 CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-4

**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	13.57	14.47	14.48	15.40	16.61	16.36	17.27	17.28	18.20	19.40
	3H	14.05	14.86	14.97	15.80	17.03	17.70	18.51	18.63	19.46	20.68
	4H	14.24	15.01	15.18	15.96	17.19	18.14	18.91	19.08	19.86	21.09
	6H	14.36	15.07	15.31	16.02	17.27	18.42	19.13	19.37	20.08	21.33
	8H	14.36	15.04	15.32	16.01	17.25	18.49	19.17	19.45	20.14	21.38
	12H	14.34	14.98	15.30	15.94	17.21	18.53	19.17	19.49	20.13	21.41
4H	2H	14.60	15.36	15.54	16.31	17.55	16.78	17.55	17.73	18.50	19.73
	3H	15.63	16.27	16.58	17.24	18.49	18.28	18.92	19.24	19.90	21.15
	4H	15.90	16.49	16.87	17.46	18.73	18.80	19.39	19.77	20.36	21.63
	6H	16.03	16.54	17.01	17.53	18.80	19.16	19.67	20.14	20.66	21.93
	8H	16.04	16.51	17.02	17.50	18.79	19.27	19.74	20.25	20.73	22.01
	12H	16.01	16.43	17.01	17.44	18.73	19.32	19.74	20.32	20.75	22.04
8H	4H	16.36	16.83	17.34	17.82	19.10	18.93	19.40	19.91	20.39	21.68
	6H	16.62	17.01	17.63	18.04	19.33	19.36	19.75	20.37	20.78	22.07
	8H	16.66	17.01	17.68	18.02	19.33	19.51	19.85	20.53	20.87	22.17
	12H	16.65	16.95	17.67	17.96	19.31	19.60	19.91	20.62	20.92	22.27
12H	4H	16.36	16.79	17.36	17.79	19.09	18.90	19.32	19.90	20.33	21.62
	6H	16.68	17.02	17.70	18.04	19.35	19.36	19.70	20.37	20.72	22.03
	8H	16.75	17.05	17.77	18.06	19.41	19.52	19.82	20.54	20.83	22.18