

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: P934672

Luminaire Tested: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

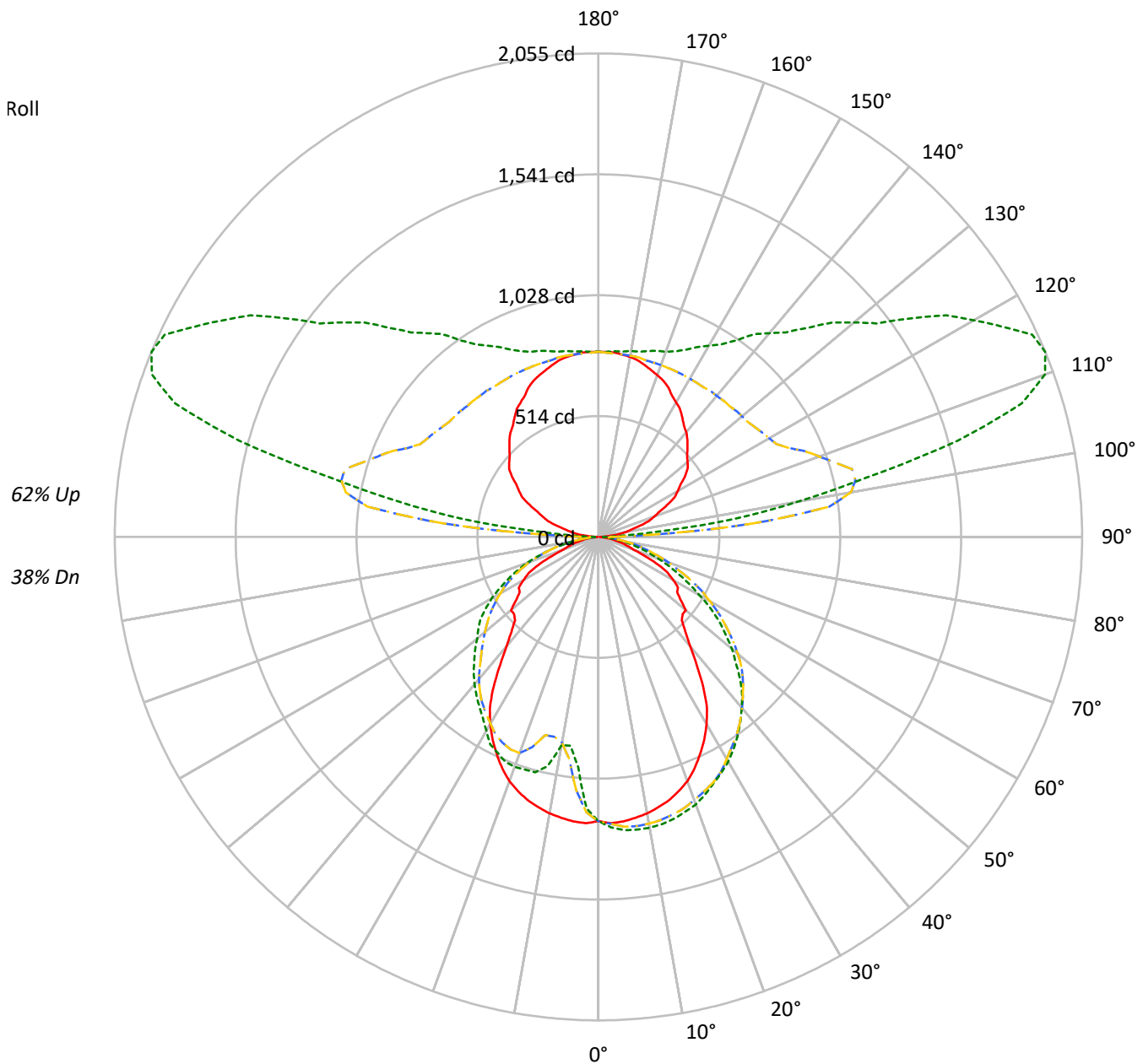
Test Method: LM-79-2019  
Report Number: P934672  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8237.1 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

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

	0°	90°	180°	270°
0°	5605	5605	5605	5605
5°	5646	5657	5646	4449
10°	5609	5573	5609	3984
15°	5547	5452	5547	4553
20°	5431	5309	5431	4562
25°	5194	5100	5194	4465
30°	4887	4927	4887	4253
35°	4357	4708	4357	4020
40°	3630	4450	3630	3844
45°	3244	4148	3244	3641
50°	3446	3789	3446	3438
55°	3242	3400	3242	3320
60°	3342	2888	3342	3041
65°	3030	2388	3030	2668
70°	2098	1903	2098	2237
75°	1839	1406	1839	1685
80°	1482	929	1482	1012
85°	852	493	852	419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.3
10°-20°	309.6	3.8
20°-30°	478.6	5.8
30°-40°	571.3	6.9
40°-50°	574.7	7.0
50°-60°	500.0	6.1
60°-70°	354.5	4.3
70°-80°	187.6	2.3
80°-90°	49.7	0.6
90°-100°	383.7	4.7
100°-110°	1008.6	12.2
110°-120°	1045.8	12.7
120°-130°	838.9	10.2
130°-140°	658.2	8.0
140°-150°	505.2	6.1
150°-160°	363.8	4.4
160°-170°	222.6	2.7
170°-180°	75.2	0.9
0°-30°	897.2	10.9
0°-40°	1468.5	17.8
0°-60°	2543.1	30.9
0°-90°	3135.0	38.1
90°-120°	2438.2	29.6
90°-150°	4440.5	53.9
90°-180°	5102.0	61.9
0°-180°	8237.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1251	1214	984	1214	115
15°	1159	1240	1159	1035	1159	326
25°	1020	1156	1020	1012	1020	469
35°	776	1032	776	881	776	480
45°	501	850	501	746	501	401
55°	408	627	408	612	408	375
65°	283	378	283	423	283	271
75°	107	179	107	215	107	113
85°	18	46	18	39	18	25
90°	5	20	5	20	5	5
95°	51	232	51	232	51	56
105°	182	1579	182	1579	182	193
115°	323	2034	323	2034	323	319
125°	449	1620	449	1620	449	399
135°	535	1257	535	1257	535	414
145°	621	1020	621	1020	621	389
155°	702	878	702	878	702	322
165°	757	818	757	818	757	214
175°	787	792	787	792	787	75
180°	787	787	787	787	787	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1218.2	1218.2	1225.1	1227.4	1227.4	1223.9	1220.5	1223.9	1234.2	1237.6	1236.5
5°	1213.7	1222.8	1235.4	1237.6	1239.9	1238.8	1236.5	1238.8	1250.2	1252.5	1253.6
7.5°	1204.5	1221.7	1237.6	1241.1	1244.5	1241.1	1239.9	1242.2	1253.6	1255.9	1255.9
10°	1193.1	1217.1	1235.4	1237.6	1241.1	1237.6	1237.6	1242.2	1253.6	1255.9	1257.0
12.5°	1177.0	1210.2	1227.4	1229.6	1234.2	1233.1	1231.9	1236.5	1247.9	1250.2	1250.2
15°	1158.8	1197.7	1213.7	1215.9	1223.9	1221.7	1221.7	1226.2	1238.8	1242.2	1241.1
17.5°	1133.7	1181.6	1200.0	1203.4	1209.1	1208.0	1209.1	1213.7	1225.1	1227.4	1228.5
20°	1105.0	1159.9	1181.6	1185.0	1190.8	1190.8	1190.8	1196.5	1208.0	1212.5	1212.5
22.5°	1066.2	1137.1	1159.9	1162.2	1169.1	1169.1	1171.3	1179.3	1189.6	1190.8	1190.8
25°	1020.5	1111.9	1131.4	1138.2	1145.1	1148.5	1151.9	1156.5	1159.9	1158.8	1159.9
27.5°	972.6	1079.9	1105.0	1109.6	1118.8	1122.3	1126.8	1128.0	1129.1	1132.5	1130.3
30°	918.8	1035.4	1073.1	1077.7	1092.5	1094.8	1090.2	1092.5	1098.2	1100.5	1102.8
32.5°	858.2	969.1	1040.0	1050.3	1064.0	1057.1	1056.0	1059.4	1068.5	1068.5	1070.8
35°	775.9	917.7	1009.1	1018.2	1028.5	1020.5	1025.1	1026.2	1031.9	1035.4	1034.2
37.5°	685.7	873.1	977.1	984.0	992.0	981.7	988.5	992.0	996.5	994.2	994.2
40°	605.7	803.4	939.4	943.9	950.8	942.8	949.6	951.9	954.2	951.9	950.8
42.5°	546.2	726.8	899.4	905.1	900.5	906.3	908.5	913.1	909.7	905.1	905.1
45°	500.6	706.2	855.9	862.8	855.9	865.1	868.5	868.5	858.2	855.9	854.8
47.5°	485.7	665.1	812.6	812.6	809.1	820.6	826.3	818.3	808.0	804.5	804.5
50°	484.5	619.4	753.1	748.6	764.5	778.2	772.5	764.5	756.5	744.0	744.0
52.5°	440.0	563.4	676.6	693.7	718.8	726.8	717.6	709.7	696.0	690.2	685.7
55°	407.9	505.2	606.8	641.1	667.4	677.7	660.6	652.5	631.9	628.5	626.2
57.5°	401.1	420.5	542.8	586.3	618.2	617.1	606.8	592.0	574.8	571.4	570.2
60°	368.0	304.0	474.2	525.7	558.8	555.4	546.2	532.5	516.6	514.3	512.0
62.5°	333.7	220.6	396.5	454.8	501.7	500.6	492.5	472.0	460.5	454.8	450.3
65°	283.4	185.1	282.3	378.3	445.7	448.0	430.9	415.9	403.4	396.5	395.4
67.5°	216.0	150.9	190.8	315.4	392.0	389.7	368.0	361.2	345.1	341.7	334.8
70°	160.0	100.5	132.6	256.0	339.4	333.7	316.5	308.6	293.7	285.7	281.2
72.5°	132.6	81.1	97.1	198.9	285.7	278.9	263.9	254.8	242.3	235.4	230.8
75°	107.4	85.7	74.3	147.4	232.0	227.4	213.7	204.6	194.3	185.1	186.2
77.5°	78.9	80.0	59.4	108.5	184.0	177.1	169.1	157.7	153.1	144.0	144.0
80°	59.4	62.9	44.6	74.3	132.6	132.6	125.7	117.7	109.7	105.1	105.1
82.5°	40.0	40.0	33.1	46.9	90.3	86.8	82.3	80.0	75.4	73.1	73.1
85°	18.3	22.8	20.5	28.5	49.2	51.5	51.5	49.2	48.0	45.8	46.9
87.5°	5.7	10.3	12.6	16.0	25.1	26.3	27.4	27.4	27.4	28.5	28.5
90°	5.3	9.5	13.8	14.8	23.3	34.5	40.1	35.7	26.8	20.1	20.1
92.5°	21.1	57.1	93.0	102.0	143.4	198.5	226.1	198.2	142.3	100.4	96.4
95°	50.7	116.5	182.2	198.6	352.6	558.1	660.8	589.7	447.4	340.7	328.6
97.5°	87.7	145.7	203.7	218.2	475.1	817.6	988.8	943.8	854.0	786.6	763.6
100°	116.2	168.8	221.4	234.6	519.6	899.7	1089.7	1093.0	1099.6	1104.5	1077.1
102.5°	140.5	189.6	238.6	250.9	540.0	925.5	1118.2	1175.5	1290.1	1376.1	1352.6
105°	181.7	223.3	264.8	275.2	555.2	928.4	1115.1	1243.5	1500.3	1692.9	1680.3
107.5°	224.0	262.8	301.4	311.2	558.0	887.1	1051.7	1230.8	1589.1	1857.8	1860.9
110°	252.5	287.5	322.4	331.2	553.7	850.5	998.9	1199.1	1599.6	1900.0	1913.2



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CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	280.5	313.8	347.1	355.5	553.9	818.5	950.8	1155.8	1565.7	1873.1	1893.3
115°	322.7	353.5	384.3	391.9	559.0	781.8	893.2	1090.6	1485.5	1781.7	1809.7
117.5°	364.5	392.4	420.4	427.4	569.5	758.9	853.6	1031.8	1388.2	1655.4	1686.4
120°	388.8	415.0	441.3	447.9	577.8	751.1	837.8	1000.6	1326.2	1570.4	1600.6
122.5°	412.5	439.1	465.6	472.3	590.0	747.0	825.6	972.2	1265.5	1485.4	1515.1
125°	449.0	473.2	497.3	503.4	606.4	743.7	812.4	936.9	1186.0	1372.8	1400.3
127.5°	478.6	503.0	527.4	533.5	622.8	741.8	801.3	908.2	1122.1	1282.5	1305.6
130°	494.4	520.7	547.0	553.5	634.7	743.0	797.1	892.3	1082.7	1225.5	1246.9
132.5°	510.8	537.1	563.4	570.0	644.5	743.7	793.4	878.6	1049.1	1176.9	1196.0
135°	535.1	559.0	583.0	589.0	655.0	743.0	787.1	858.5	1001.2	1108.2	1124.7
137.5°	559.9	583.6	607.3	613.3	670.9	747.6	786.0	846.3	967.0	1057.5	1071.0
140°	580.6	602.4	624.2	629.6	680.5	748.4	782.3	834.4	938.6	1016.9	1029.5
142.5°	596.4	616.6	636.8	641.8	688.7	751.1	782.3	828.1	919.6	988.3	999.1
145°	620.7	638.3	655.9	660.3	699.2	751.1	777.0	814.5	889.4	945.5	953.7
147.5°	645.0	662.1	679.3	683.6	714.7	756.2	777.0	806.5	865.4	909.6	916.4
150°	660.8	676.3	691.8	695.7	722.8	759.0	777.0	801.9	851.7	889.0	894.5
152.5°	677.2	688.9	700.7	703.6	728.0	760.7	777.0	798.2	840.8	872.6	876.8
155°	701.5	710.1	718.8	721.0	739.7	764.6	777.0	793.9	827.7	853.1	855.8
157.5°	719.4	727.9	736.3	738.4	751.3	768.4	777.0	790.1	816.5	836.2	838.1
160°	731.6	738.2	744.7	746.4	756.6	770.2	777.0	788.3	810.8	827.7	828.8
162.5°	743.7	748.7	753.6	754.9	762.3	772.1	777.0	786.6	805.6	819.8	820.8
165°	756.9	761.3	765.9	767.0	770.3	774.8	777.0	783.8	797.5	807.7	808.8
167.5°	769.1	771.2	773.4	773.9	776.7	780.4	782.3	786.7	795.7	802.4	802.8
170°	777.0	779.2	781.3	781.8	782.0	782.2	782.3	786.7	795.7	802.4	802.4
172.5°	781.3	781.7	782.2	782.3	782.3	782.3	782.3	785.8	792.9	798.2	797.7
175°	787.1	787.1	787.1	787.1	785.5	783.3	782.3	784.5	789.0	792.4	792.4
177.5°	787.1	787.1	787.1	787.1	785.8	784.2	783.3	785.1	788.6	791.3	790.8
180°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1238.8	1235.4	1238.8	1236.5	1237.6	1234.2	1223.9	1220.5	1223.9	1227.4	1227.4
5°	1253.6	1251.3	1253.6	1253.6	1252.5	1250.2	1238.8	1236.5	1238.8	1239.9	1237.6
7.5°	1258.2	1254.8	1258.2	1255.9	1255.9	1253.6	1242.2	1239.9	1241.1	1244.5	1241.1
10°	1258.2	1254.8	1258.2	1257.0	1255.9	1253.6	1242.2	1237.6	1237.6	1241.1	1237.6
12.5°	1252.5	1250.2	1252.5	1250.2	1250.2	1247.9	1236.5	1231.9	1233.1	1234.2	1229.6
15°	1243.3	1239.9	1243.3	1241.1	1242.2	1238.8	1226.2	1221.7	1221.7	1223.9	1215.9
17.5°	1229.6	1225.1	1229.6	1228.5	1227.4	1225.1	1213.7	1209.1	1208.0	1209.1	1203.4
20°	1213.7	1210.2	1213.7	1212.5	1212.5	1208.0	1196.5	1190.8	1190.8	1190.8	1185.0
22.5°	1188.5	1185.0	1188.5	1190.8	1190.8	1189.6	1179.3	1171.3	1169.1	1169.1	1162.2
25°	1159.9	1156.5	1159.9	1159.9	1158.8	1159.9	1156.5	1151.9	1148.5	1145.1	1138.2
27.5°	1132.5	1130.3	1132.5	1130.3	1132.5	1129.1	1128.0	1126.8	1122.3	1118.8	1109.6
30°	1105.0	1102.8	1105.0	1102.8	1100.5	1098.2	1092.5	1090.2	1094.8	1092.5	1077.7
32.5°	1070.8	1068.5	1070.8	1070.8	1068.5	1068.5	1059.4	1056.0	1057.1	1064.0	1050.3
35°	1035.4	1031.9	1035.4	1034.2	1035.4	1031.9	1026.2	1025.1	1020.5	1028.5	1018.2
37.5°	994.2	990.8	994.2	994.2	994.2	996.5	992.0	988.5	981.7	992.0	984.0
40°	951.9	947.3	951.9	950.8	951.9	954.2	951.9	949.6	942.8	950.8	943.9
42.5°	904.0	902.8	904.0	905.1	905.1	909.7	913.1	908.5	906.3	900.5	905.1
45°	852.5	850.2	852.5	854.8	855.9	858.2	868.5	868.5	865.1	855.9	862.8
47.5°	797.6	791.9	797.6	804.5	804.5	808.0	818.3	826.3	820.6	809.1	812.6
50°	739.4	740.6	739.4	744.0	744.0	756.5	764.5	772.5	778.2	764.5	748.6
52.5°	682.3	681.1	682.3	685.7	690.2	696.0	709.7	717.6	726.8	718.8	693.7
55°	625.1	627.4	625.1	626.2	628.5	631.9	652.5	660.6	677.7	667.4	641.1
57.5°	567.9	564.5	567.9	570.2	571.4	574.8	592.0	606.8	617.1	618.2	586.3
60°	501.7	497.1	501.7	512.0	514.3	516.6	532.5	546.2	555.4	558.8	525.7
62.5°	443.4	435.4	443.4	450.3	454.8	460.5	472.0	492.5	500.6	501.7	454.8
65°	381.7	378.3	381.7	395.4	396.5	403.4	415.9	430.9	448.0	445.7	378.3
67.5°	325.7	325.7	325.7	334.8	341.7	345.1	361.2	368.0	389.7	392.0	315.4
70°	274.3	273.2	274.3	281.2	285.7	293.7	308.6	316.5	333.7	339.4	256.0
72.5°	225.1	224.0	225.1	230.8	235.4	242.3	254.8	263.9	278.9	285.7	198.9
75°	181.7	179.4	181.7	186.2	185.1	194.3	204.6	213.7	227.4	232.0	147.4
77.5°	139.4	139.4	139.4	144.0	144.0	153.1	157.7	169.1	177.1	184.0	108.5
80°	104.0	102.8	104.0	105.1	105.1	109.7	117.7	125.7	132.6	132.6	74.3
82.5°	73.1	70.9	73.1	73.1	73.1	75.4	80.0	82.3	86.8	90.3	46.9
85°	45.8	45.8	45.8	46.9	45.8	48.0	49.2	51.5	51.5	49.2	28.5
87.5°	29.7	28.5	29.7	28.5	28.5	27.4	27.4	27.4	26.3	25.1	16.0
90°	20.1	20.1	20.1	20.1	20.1	26.8	35.7	40.1	34.5	23.3	14.8
92.5°	80.4	64.4	80.4	96.4	100.4	142.3	198.2	226.1	198.5	143.4	102.0
95°	280.3	231.9	280.3	328.6	340.7	447.4	589.7	660.8	558.1	352.6	198.6
97.5°	671.5	579.4	671.5	763.6	786.6	854.0	943.8	988.8	817.6	475.1	218.2
100°	967.5	857.9	967.5	1077.1	1104.5	1099.6	1093.0	1089.7	899.7	519.6	234.6
102.5°	1258.7	1164.8	1258.7	1352.6	1376.1	1290.1	1175.5	1118.2	925.5	540.0	250.9
105°	1629.8	1579.4	1629.8	1680.3	1692.9	1500.3	1243.5	1115.1	928.4	555.2	275.2
107.5°	1873.0	1885.2	1873.0	1860.9	1857.8	1589.1	1230.8	1051.7	887.1	558.0	311.2
110°	1965.8	2018.4	1965.8	1913.2	1900.0	1599.6	1199.1	998.9	850.5	553.7	331.2





TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1974.0	2054.8	1974.0	1893.3	1873.1	1565.7	1155.8	950.8	818.5	553.9	355.5
115°	1921.7	2033.6	1921.7	1809.7	1781.7	1485.5	1090.6	893.2	781.8	559.0	391.9
117.5°	1810.7	1934.9	1810.7	1686.4	1655.4	1388.2	1031.8	853.6	758.9	569.5	427.4
120°	1721.3	1841.9	1721.3	1600.6	1570.4	1326.2	1000.6	837.8	751.1	577.8	447.9
122.5°	1634.1	1753.2	1634.1	1515.1	1485.4	1265.5	972.2	825.6	747.0	590.0	472.3
125°	1509.9	1619.6	1509.9	1400.3	1372.8	1186.0	936.9	812.4	743.7	606.4	503.4
127.5°	1398.1	1490.7	1398.1	1305.6	1282.5	1122.1	908.2	801.3	741.8	622.8	533.5
130°	1332.3	1417.7	1332.3	1246.9	1225.5	1082.7	892.3	797.1	743.0	634.7	553.5
132.5°	1272.5	1349.1	1272.5	1196.0	1176.9	1049.1	878.6	793.4	743.7	644.5	570.0
135°	1190.7	1256.6	1190.7	1124.7	1108.2	1001.2	858.5	787.1	743.0	655.0	589.0
137.5°	1125.0	1179.0	1125.0	1071.0	1057.5	967.0	846.3	786.0	747.6	670.9	613.3
140°	1080.0	1130.4	1080.0	1029.5	1016.9	938.6	834.4	782.3	748.4	680.5	629.6
142.5°	1042.6	1086.0	1042.6	999.1	988.3	919.6	828.1	782.3	751.1	688.7	641.8
145°	986.6	1019.5	986.6	953.7	945.5	889.4	814.5	777.0	751.1	699.2	660.3
147.5°	943.6	970.9	943.6	916.4	909.6	865.4	806.5	777.0	756.2	714.7	683.6
150°	916.6	938.6	916.6	894.5	889.0	851.7	801.9	777.0	759.0	722.8	695.7
152.5°	893.4	910.1	893.4	876.8	872.6	840.8	798.2	777.0	760.7	728.0	703.6
155°	866.9	877.9	866.9	855.8	853.1	827.7	793.9	777.0	764.6	739.7	721.0
157.5°	845.9	853.6	845.9	838.1	836.2	816.5	790.1	777.0	768.4	751.3	738.4
160°	833.3	837.8	833.3	828.8	827.7	810.8	788.3	777.0	770.2	756.6	746.4
162.5°	825.1	829.3	825.1	820.8	819.8	805.6	786.6	777.0	772.1	762.3	754.9
165°	813.2	817.7	813.2	808.8	807.7	797.5	783.8	777.0	774.8	770.3	767.0
167.5°	804.7	806.6	804.7	802.8	802.4	795.7	786.7	782.3	780.4	776.7	773.9
170°	802.4	802.4	802.4	802.4	802.4	795.7	786.7	782.3	782.2	782.0	781.8
172.5°	796.1	794.5	796.1	797.7	798.2	792.9	785.8	782.3	782.3	782.3	782.3
175°	792.4	792.4	792.4	792.4	792.4	789.0	784.5	782.3	783.3	785.5	787.1
177.5°	789.0	787.1	789.0	790.8	791.3	788.6	785.1	783.3	784.2	785.8	787.1
180°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1225.1	1218.2	1218.2	1206.8	1202.3	1198.8	1193.1	1175.9	1171.3	1166.8	1173.6
5°	1235.4	1222.8	1213.7	1193.1	1175.9	1169.1	1147.4	1106.2	1078.8	1058.2	1046.8
7.5°	1237.6	1221.7	1204.5	1172.5	1131.4	1113.1	1046.8	971.4	950.8	932.5	921.1
10°	1235.4	1217.1	1193.1	1145.1	1048.0	1015.9	949.6	900.5	888.0	884.5	888.0
12.5°	1227.4	1210.2	1177.0	1097.1	961.1	939.4	900.5	871.9	869.6	875.3	906.3
15°	1213.7	1197.7	1158.8	1033.0	913.1	897.1	869.6	859.4	871.9	912.0	1004.5
17.5°	1200.0	1181.6	1133.7	970.3	876.5	865.1	845.7	866.2	937.1	990.8	1021.6
20°	1181.6	1159.9	1105.0	924.5	850.2	840.0	830.8	923.4	977.1	996.5	1013.6
22.5°	1159.9	1137.1	1066.2	892.6	822.8	814.9	820.6	955.3	977.1	990.8	1005.6
25°	1131.4	1111.9	1020.5	867.4	801.1	791.9	813.7	951.9	964.5	968.0	997.7
27.5°	1105.0	1079.9	972.6	844.5	774.8	771.4	819.4	937.1	946.2	949.6	981.7
30°	1073.1	1035.4	918.8	820.6	747.4	746.3	820.6	918.8	916.5	925.7	957.6
32.5°	1040.0	969.1	858.2	790.8	721.1	719.9	812.6	891.4	889.1	901.7	925.7
35°	1009.1	917.7	775.9	756.5	688.0	689.1	793.1	859.4	860.5	871.9	886.8
37.5°	977.1	873.1	685.7	718.8	656.0	656.0	766.8	829.7	827.4	830.8	851.4
40°	939.4	803.4	605.7	669.7	626.2	622.8	734.8	797.6	789.6	788.5	817.1
42.5°	899.4	726.8	546.2	604.6	592.0	587.4	696.0	758.8	744.0	747.4	783.9
45°	855.9	706.2	500.6	510.9	556.5	553.1	653.7	714.2	703.9	713.1	750.8
47.5°	812.6	665.1	485.7	424.0	518.9	517.7	606.8	670.8	665.1	674.3	714.2
50°	753.1	619.4	484.5	363.4	476.5	481.1	550.8	628.5	628.5	636.5	678.8
52.5°	676.6	563.4	440.0	329.1	427.4	441.1	501.7	592.0	594.3	602.3	639.9
55°	606.8	505.2	407.9	302.8	369.1	398.8	453.7	554.2	558.8	566.8	601.1
57.5°	542.8	420.5	401.1	272.0	315.4	344.0	411.4	517.7	520.0	526.8	559.9
60°	474.2	304.0	368.0	238.8	268.6	290.3	372.6	474.2	482.2	486.8	515.4
62.5°	396.5	220.6	333.7	216.0	245.7	250.2	340.5	433.2	443.4	446.9	464.0
65°	282.3	185.1	283.4	196.6	221.7	222.9	306.3	390.8	400.0	405.7	418.2
67.5°	190.8	150.9	216.0	178.2	203.5	204.6	273.2	341.7	354.3	358.9	366.9
70°	132.6	100.5	160.0	158.8	182.8	185.1	237.7	297.1	308.6	312.0	316.5
72.5°	97.1	81.1	132.6	142.9	161.1	163.4	201.2	246.8	258.2	261.7	263.9
75°	74.3	85.7	107.4	124.6	137.2	138.3	164.5	201.2	209.2	211.4	212.6
77.5°	59.4	80.0	78.9	100.5	112.0	109.7	129.2	155.4	162.3	162.3	162.3
80°	44.6	62.9	59.4	72.0	82.3	80.0	92.5	110.8	113.1	115.4	114.3
82.5°	33.1	40.0	40.0	45.8	54.9	52.6	61.7	72.0	72.0	72.0	74.3
85°	20.5	22.8	18.3	24.0	30.8	29.7	34.3	38.9	40.0	40.0	37.7
87.5°	12.6	10.3	5.7	9.1	13.7	13.7	16.0	17.1	16.0	16.0	16.0
90°	13.8	9.5	5.3	9.5	13.8	14.8	23.3	34.5	40.1	35.7	26.8
92.5°	93.0	57.1	21.1	57.1	93.0	102.0	143.4	198.5	226.1	198.2	142.3
95°	182.2	116.5	50.7	116.5	182.2	198.6	352.6	558.1	660.8	589.7	447.4
97.5°	203.7	145.7	87.7	145.7	203.7	218.2	475.1	817.6	988.8	943.8	854.0
100°	221.4	168.8	116.2	168.8	221.4	234.6	519.6	899.7	1089.7	1093.0	1099.6
102.5°	238.6	189.6	140.5	189.6	238.6	250.9	540.0	925.5	1118.2	1175.5	1290.1
105°	264.8	223.3	181.7	223.3	264.8	275.2	555.2	928.4	1115.1	1243.5	1500.3
107.5°	301.4	262.8	224.0	262.8	301.4	311.2	558.0	887.1	1051.7	1230.8	1589.1
110°	322.4	287.5	252.5	287.5	322.4	331.2	553.7	850.5	998.9	1199.1	1599.6



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	347.1	313.8	280.5	313.8	347.1	355.5	553.9	818.5	950.8	1155.8	1565.7
115°	384.3	353.5	322.7	353.5	384.3	391.9	559.0	781.8	893.2	1090.6	1485.5
117.5°	420.4	392.4	364.5	392.4	420.4	427.4	569.5	758.9	853.6	1031.8	1388.2
120°	441.3	415.0	388.8	415.0	441.3	447.9	577.8	751.1	837.8	1000.6	1326.2
122.5°	465.6	439.1	412.5	439.1	465.6	472.3	590.0	747.0	825.6	972.2	1265.5
125°	497.3	473.2	449.0	473.2	497.3	503.4	606.4	743.7	812.4	936.9	1186.0
127.5°	527.4	503.0	478.6	503.0	527.4	533.5	622.8	741.8	801.3	908.2	1122.1
130°	547.0	520.7	494.4	520.7	547.0	553.5	634.7	743.0	797.1	892.3	1082.7
132.5°	563.4	537.1	510.8	537.1	563.4	570.0	644.5	743.7	793.4	878.6	1049.1
135°	583.0	559.0	535.1	559.0	583.0	589.0	655.0	743.0	787.1	858.5	1001.2
137.5°	607.3	583.6	559.9	583.6	607.3	613.3	670.9	747.6	786.0	846.3	967.0
140°	624.2	602.4	580.6	602.4	624.2	629.6	680.5	748.4	782.3	834.4	938.6
142.5°	636.8	616.6	596.4	616.6	636.8	641.8	688.7	751.1	782.3	828.1	919.6
145°	655.9	638.3	620.7	638.3	655.9	660.3	699.2	751.1	777.0	814.5	889.4
147.5°	679.3	662.1	645.0	662.1	679.3	683.6	714.7	756.2	777.0	806.5	865.4
150°	691.8	676.3	660.8	676.3	691.8	695.7	722.8	759.0	777.0	801.9	851.7
152.5°	700.7	688.9	677.2	688.9	700.7	703.6	728.0	760.7	777.0	798.2	840.8
155°	718.8	710.1	701.5	710.1	718.8	721.0	739.7	764.6	777.0	793.9	827.7
157.5°	736.3	727.9	719.4	727.9	736.3	738.4	751.3	768.4	777.0	790.1	816.5
160°	744.7	738.2	731.6	738.2	744.7	746.4	756.6	770.2	777.0	788.3	810.8
162.5°	753.6	748.7	743.7	748.7	753.6	754.9	762.3	772.1	777.0	786.6	805.6
165°	765.9	761.3	756.9	761.3	765.9	767.0	770.3	774.8	777.0	783.8	797.5
167.5°	773.4	771.2	769.1	771.2	773.4	773.9	776.7	780.4	782.3	786.7	795.7
170°	781.3	779.2	777.0	779.2	781.3	781.8	782.0	782.2	782.3	786.7	795.7
172.5°	782.2	781.7	781.3	781.7	782.2	782.3	782.3	782.3	782.3	785.8	792.9
175°	787.1	787.1	787.1	787.1	787.1	787.1	785.5	783.3	782.3	784.5	789.0
177.5°	787.1	787.1	787.1	787.1	787.1	787.1	785.8	784.2	783.3	785.1	788.6
180°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1165.6	1162.2	1166.8	1154.2	1166.8	1162.2	1165.6	1173.6	1166.8	1171.3	1175.9
5°	1022.8	1017.1	998.8	984.0	998.8	1017.1	1022.8	1046.8	1058.2	1078.8	1106.2
7.5°	914.2	909.7	905.1	896.0	905.1	909.7	914.2	921.1	932.5	950.8	971.4
10°	890.3	891.4	898.3	897.1	898.3	891.4	890.3	888.0	884.5	888.0	900.5
12.5°	951.9	962.2	999.9	997.7	999.9	962.2	951.9	906.3	875.3	869.6	871.9
15°	1022.8	1026.2	1034.2	1035.4	1034.2	1026.2	1022.8	1004.5	912.0	871.9	859.4
17.5°	1029.6	1030.8	1036.5	1036.5	1036.5	1030.8	1029.6	1021.6	990.8	937.1	866.2
20°	1023.9	1026.2	1037.7	1040.0	1037.7	1026.2	1023.9	1013.6	996.5	977.1	923.4
22.5°	1021.6	1026.2	1035.4	1034.2	1035.4	1026.2	1021.6	1005.6	990.8	977.1	955.3
25°	1010.2	1010.2	1011.4	1012.5	1011.4	1010.2	1010.2	997.7	968.0	964.5	951.9
27.5°	986.2	988.5	995.4	994.2	995.4	988.5	986.2	981.7	949.6	946.2	937.1
30°	964.5	962.2	956.5	951.9	956.5	962.2	964.5	957.6	925.7	916.5	918.8
32.5°	927.9	922.2	916.5	913.1	916.5	922.2	927.9	925.7	901.7	889.1	891.4
35°	884.5	885.7	884.5	881.1	884.5	885.7	884.5	886.8	871.9	860.5	859.4
37.5°	853.7	855.9	854.8	850.2	854.8	855.9	853.7	851.4	830.8	827.4	829.7
40°	821.7	822.8	821.7	818.3	821.7	822.8	821.7	817.1	788.5	789.6	797.6
42.5°	790.8	789.6	786.2	783.9	786.2	789.6	790.8	783.9	747.4	744.0	758.8
45°	755.4	756.5	749.7	746.3	749.7	756.5	755.4	750.8	713.1	703.9	714.2
47.5°	719.9	719.9	714.2	710.8	714.2	719.9	719.9	714.2	674.3	665.1	670.8
50°	682.3	681.1	673.1	672.0	673.1	681.1	682.3	678.8	636.5	628.5	628.5
52.5°	638.8	638.8	639.9	642.2	639.9	638.8	638.8	639.9	602.3	594.3	592.0
55°	601.1	602.3	610.3	612.5	610.3	602.3	601.1	601.1	566.8	558.8	554.2
57.5°	562.2	562.2	567.9	567.9	567.9	562.2	562.2	559.9	526.8	520.0	517.7
60°	517.7	520.0	524.6	523.4	524.6	520.0	517.7	515.4	486.8	482.2	474.2
62.5°	470.8	473.1	474.2	472.0	474.2	473.1	470.8	464.0	446.9	443.4	433.2
65°	421.7	424.0	425.1	422.8	425.1	424.0	421.7	418.2	405.7	400.0	390.8
67.5°	371.4	370.3	369.1	373.7	369.1	370.3	371.4	366.9	358.9	354.3	341.7
70°	320.0	320.0	318.8	321.1	318.8	320.0	320.0	316.5	312.0	308.6	297.1
72.5°	265.1	263.9	268.6	265.1	268.6	263.9	265.1	263.9	261.7	258.2	246.8
75°	211.4	213.7	211.4	214.9	211.4	213.7	211.4	212.6	211.4	209.2	201.2
77.5°	161.1	163.4	161.1	161.1	161.1	163.4	161.1	162.3	162.3	162.3	155.4
80°	114.3	113.1	113.1	112.0	113.1	113.1	114.3	114.3	115.4	113.1	110.8
82.5°	73.1	72.0	72.0	74.3	72.0	72.0	73.1	74.3	72.0	72.0	72.0
85°	40.0	41.2	38.9	38.9	38.9	41.2	40.0	37.7	40.0	40.0	38.9
87.5°	14.8	13.7	13.7	13.7	13.7	13.7	14.8	16.0	16.0	16.0	17.1
90°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	26.8	35.7	40.1	34.5
92.5°	100.4	96.4	80.4	64.4	80.4	96.4	100.4	142.3	198.2	226.1	198.5
95°	340.7	328.6	280.3	231.9	280.3	328.6	340.7	447.4	589.7	660.8	558.1
97.5°	786.6	763.6	671.5	579.4	671.5	763.6	786.6	854.0	943.8	988.8	817.6
100°	1104.5	1077.1	967.5	857.9	967.5	1077.1	1104.5	1099.6	1093.0	1089.7	899.7
102.5°	1376.1	1352.6	1258.7	1164.8	1258.7	1352.6	1376.1	1290.1	1175.5	1118.2	925.5
105°	1692.9	1680.3	1629.8	1579.4	1629.8	1680.3	1692.9	1500.3	1243.5	1115.1	928.4
107.5°	1857.8	1860.9	1873.0	1885.2	1873.0	1860.9	1857.8	1589.1	1230.8	1051.7	887.1
110°	1900.0	1913.2	1965.8	2018.4	1965.8	1913.2	1900.0	1599.6	1199.1	998.9	850.5



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1873.1	1893.3	1974.0	2054.8	1974.0	1893.3	1873.1	1565.7	1155.8	950.8	818.5
115°	1781.7	1809.7	1921.7	2033.6	1921.7	1809.7	1781.7	1485.5	1090.6	893.2	781.8
117.5°	1655.4	1686.4	1810.7	1934.9	1810.7	1686.4	1655.4	1388.2	1031.8	853.6	758.9
120°	1570.4	1600.6	1721.3	1841.9	1721.3	1600.6	1570.4	1326.2	1000.6	837.8	751.1
122.5°	1485.4	1515.1	1634.1	1753.2	1634.1	1515.1	1485.4	1265.5	972.2	825.6	747.0
125°	1372.8	1400.3	1509.9	1619.6	1509.9	1400.3	1372.8	1186.0	936.9	812.4	743.7
127.5°	1282.5	1305.6	1398.1	1490.7	1398.1	1305.6	1282.5	1122.1	908.2	801.3	741.8
130°	1225.5	1246.9	1332.3	1417.7	1332.3	1246.9	1225.5	1082.7	892.3	797.1	743.0
132.5°	1176.9	1196.0	1272.5	1349.1	1272.5	1196.0	1176.9	1049.1	878.6	793.4	743.7
135°	1108.2	1124.7	1190.7	1256.6	1190.7	1124.7	1108.2	1001.2	858.5	787.1	743.0
137.5°	1057.5	1071.0	1125.0	1179.0	1125.0	1071.0	1057.5	967.0	846.3	786.0	747.6
140°	1016.9	1029.5	1080.0	1130.4	1080.0	1029.5	1016.9	938.6	834.4	782.3	748.4
142.5°	988.3	999.1	1042.6	1086.0	1042.6	999.1	988.3	919.6	828.1	782.3	751.1
145°	945.5	953.7	986.6	1019.5	986.6	953.7	945.5	889.4	814.5	777.0	751.1
147.5°	909.6	916.4	943.6	970.9	943.6	916.4	909.6	865.4	806.5	777.0	756.2
150°	889.0	894.5	916.6	938.6	916.6	894.5	889.0	851.7	801.9	777.0	759.0
152.5°	872.6	876.8	893.4	910.1	893.4	876.8	872.6	840.8	798.2	777.0	760.7
155°	853.1	855.8	866.9	877.9	866.9	855.8	853.1	827.7	793.9	777.0	764.6
157.5°	836.2	838.1	845.9	853.6	845.9	838.1	836.2	816.5	790.1	777.0	768.4
160°	827.7	828.8	833.3	837.8	833.3	828.8	827.7	810.8	788.3	777.0	770.2
162.5°	819.8	820.8	825.1	829.3	825.1	820.8	819.8	805.6	786.6	777.0	772.1
165°	807.7	808.8	813.2	817.7	813.2	808.8	807.7	797.5	783.8	777.0	774.8
167.5°	802.4	802.8	804.7	806.6	804.7	802.8	802.4	795.7	786.7	782.3	780.4
170°	802.4	802.4	802.4	802.4	802.4	802.4	802.4	795.7	786.7	782.3	782.2
172.5°	798.2	797.7	796.1	794.5	796.1	797.7	798.2	792.9	785.8	782.3	782.3
175°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	789.0	784.5	782.3	783.3
177.5°	791.3	790.8	789.0	787.1	789.0	790.8	791.3	788.6	785.1	783.3	784.2
180°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1193.1	1198.8	1202.3	1206.8	1218.2
5°	1147.4	1169.1	1175.9	1193.1	1213.7
7.5°	1046.8	1113.1	1131.4	1172.5	1204.5
10°	949.6	1015.9	1048.0	1145.1	1193.1
12.5°	900.5	939.4	961.1	1097.1	1177.0
15°	869.6	897.1	913.1	1033.0	1158.8
17.5°	845.7	865.1	876.5	970.3	1133.7
20°	830.8	840.0	850.2	924.5	1105.0
22.5°	820.6	814.9	822.8	892.6	1066.2
25°	813.7	791.9	801.1	867.4	1020.5
27.5°	819.4	771.4	774.8	844.5	972.6
30°	820.6	746.3	747.4	820.6	918.8
32.5°	812.6	719.9	721.1	790.8	858.2
35°	793.1	689.1	688.0	756.5	775.9
37.5°	766.8	656.0	656.0	718.8	685.7
40°	734.8	622.8	626.2	669.7	605.7
42.5°	696.0	587.4	592.0	604.6	546.2
45°	653.7	553.1	556.5	510.9	500.6
47.5°	606.8	517.7	518.9	424.0	485.7
50°	550.8	481.1	476.5	363.4	484.5
52.5°	501.7	441.1	427.4	329.1	440.0
55°	453.7	398.8	369.1	302.8	407.9
57.5°	411.4	344.0	315.4	272.0	401.1
60°	372.6	290.3	268.6	238.8	368.0
62.5°	340.5	250.2	245.7	216.0	333.7
65°	306.3	222.9	221.7	196.6	283.4
67.5°	273.2	204.6	203.5	178.2	216.0
70°	237.7	185.1	182.8	158.8	160.0
72.5°	201.2	163.4	161.1	142.9	132.6
75°	164.5	138.3	137.2	124.6	107.4
77.5°	129.2	109.7	112.0	100.5	78.9
80°	92.5	80.0	82.3	72.0	59.4
82.5°	61.7	52.6	54.9	45.8	40.0
85°	34.3	29.7	30.8	24.0	18.3
87.5°	16.0	13.7	13.7	9.1	5.7
90°	23.3	14.8	13.8	9.5	5.3
92.5°	143.4	102.0	93.0	57.1	21.1
95°	352.6	198.6	182.2	116.5	50.7
97.5°	475.1	218.2	203.7	145.7	87.7
100°	519.6	234.6	221.4	168.8	116.2
102.5°	540.0	250.9	238.6	189.6	140.5
105°	555.2	275.2	264.8	223.3	181.7
107.5°	558.0	311.2	301.4	262.8	224.0
110°	553.7	331.2	322.4	287.5	252.5



TEST NUMBER: P934672

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	553.9	355.5	347.1	313.8	280.5
115°	559.0	391.9	384.3	353.5	322.7
117.5°	569.5	427.4	420.4	392.4	364.5
120°	577.8	447.9	441.3	415.0	388.8
122.5°	590.0	472.3	465.6	439.1	412.5
125°	606.4	503.4	497.3	473.2	449.0
127.5°	622.8	533.5	527.4	503.0	478.6
130°	634.7	553.5	547.0	520.7	494.4
132.5°	644.5	570.0	563.4	537.1	510.8
135°	655.0	589.0	583.0	559.0	535.1
137.5°	670.9	613.3	607.3	583.6	559.9
140°	680.5	629.6	624.2	602.4	580.6
142.5°	688.7	641.8	636.8	616.6	596.4
145°	699.2	660.3	655.9	638.3	620.7
147.5°	714.7	683.6	679.3	662.1	645.0
150°	722.8	695.7	691.8	676.3	660.8
152.5°	728.0	703.6	700.7	688.9	677.2
155°	739.7	721.0	718.8	710.1	701.5
157.5°	751.3	738.4	736.3	727.9	719.4
160°	756.6	746.4	744.7	738.2	731.6
162.5°	762.3	754.9	753.6	748.7	743.7
165°	770.3	767.0	765.9	761.3	756.9
167.5°	776.7	773.9	773.4	771.2	769.1
170°	782.0	781.8	781.3	779.2	777.0
172.5°	782.3	782.3	782.2	781.7	781.3
175°	785.5	787.1	787.1	787.1	787.1
177.5°	785.8	787.1	787.1	787.1	787.1
180°	787.1	787.1	787.1	787.1	787.1



TEST NUMBER: P934672  
 CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-8

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.58	10.34	10.63	11.40	12.83	12.42	13.18	13.47	14.24	15.67
	3H	10.05	10.73	11.11	11.80	13.25	13.76	14.44	14.82	15.51	16.96
	4H	10.23	10.88	11.31	11.95	13.41	14.20	14.85	15.27	15.91	17.37
	6H	10.35	10.94	11.43	12.02	13.49	14.48	15.08	15.56	16.15	17.62
	8H	10.35	10.91	11.44	12.00	13.47	14.55	15.12	15.64	16.21	17.67
	12H	10.31	10.85	11.41	11.93	13.42	14.59	15.13	15.68	16.21	17.70
4H	2H	10.60	11.25	11.68	12.32	13.77	12.81	13.46	13.89	14.53	15.99
	3H	11.62	12.16	12.71	13.25	14.72	14.31	14.85	15.40	15.95	17.42
	4H	11.89	12.39	12.99	13.47	14.96	14.84	15.33	15.93	16.42	17.91
	6H	12.01	12.44	13.11	13.54	15.03	15.20	15.62	16.30	16.73	18.22
	8H	12.01	12.41	13.12	13.51	15.01	15.30	15.70	16.41	16.80	18.30
	12H	11.98	12.34	13.10	13.45	14.96	15.36	15.72	16.48	16.83	18.34
8H	4H	12.34	12.73	13.44	13.84	15.34	14.95	15.35	16.06	16.45	17.95
	6H	12.60	12.92	13.72	14.07	15.56	15.39	15.72	16.51	16.86	18.36
	8H	12.64	12.92	13.77	14.05	15.57	15.54	15.83	16.67	16.95	18.47
	12H	12.62	12.87	13.75	13.99	15.54	15.64	15.89	16.77	17.01	18.56
12H	4H	12.34	12.70	13.46	13.81	15.32	14.91	15.27	16.03	16.39	17.89
	6H	12.66	12.94	13.79	14.07	15.58	15.38	15.67	16.52	16.80	18.31
	8H	12.72	12.97	13.85	14.09	15.65	15.54	15.79	16.68	16.92	18.47