

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: P934624

Luminaire Tested: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934624
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-927-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

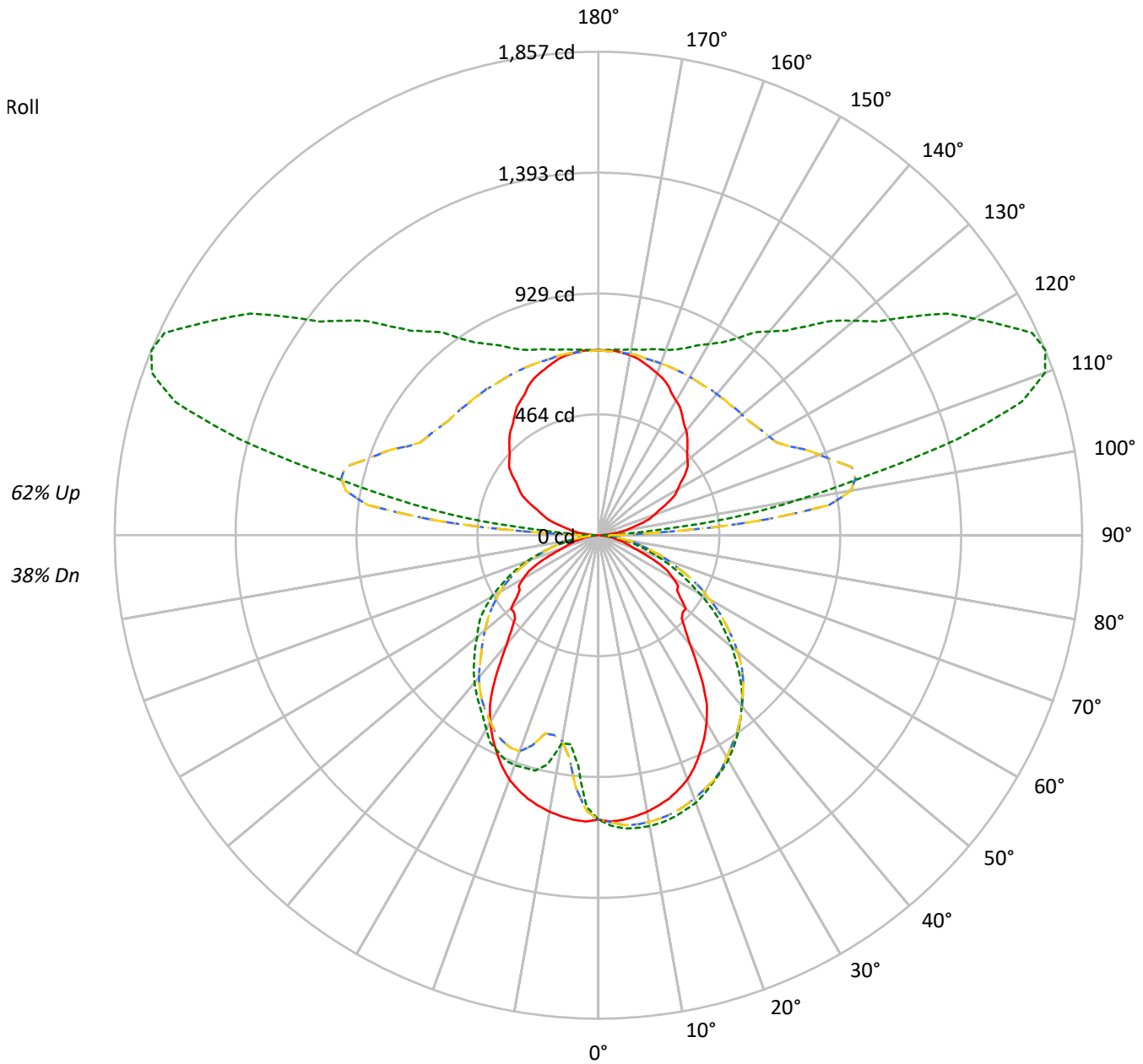
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7444.4 lumens
Efficiency: N/A
Efficacy: 108.2 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

TEST NUMBER: P934624
CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

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°	5065	5065	5065	5065
5°	5103	5113	5103	4020
10°	5068	5037	5068	3600
15°	5014	4927	5014	4114
20°	4909	4798	4909	4123
25°	4694	4609	4694	4036
30°	4417	4453	4417	3844
35°	3937	4255	3937	3633
40°	3281	4022	3281	3474
45°	2932	3749	2932	3290
50°	3114	3424	3114	3107
55°	2930	3073	2930	3000
60°	3021	2610	3021	2748
65°	2738	2158	2738	2412
70°	1896	1720	1896	2021
75°	1663	1271	1663	1522
80°	1340	840	1340	915
85°	773	445	773	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4493 cd/sqm



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.3
10°-20°	279.8	3.8
20°-30°	432.5	5.8
30°-40°	516.3	6.9
40°-50°	519.3	7.0
50°-60°	451.9	6.1
60°-70°	320.4	4.3
70°-80°	169.5	2.3
80°-90°	44.9	0.6
90°-100°	346.7	4.7
100°-110°	911.6	12.2
110°-120°	945.2	12.7
120°-130°	758.2	10.2
130°-140°	594.9	8.0
140°-150°	456.6	6.1
150°-160°	328.8	4.4
160°-170°	201.2	2.7
170°-180°	68.0	0.9
0°-30°	810.8	10.9
0°-40°	1327.2	17.8
0°-60°	2298.4	30.9
0°-90°	2833.2	38.1
90°-120°	2203.5	29.6
90°-150°	4013.1	53.9
90°-180°	4611.0	61.9
0°-180°	7444.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1092	1092	1092	1092	1092	
5°	1097	1131	1097	889	1097	104
15°	1047	1121	1047	936	1047	295
25°	922	1045	922	915	922	423
35°	701	933	701	796	701	434
45°	452	768	452	674	452	362
55°	369	567	369	554	369	339
65°	256	342	256	382	256	245
75°	97	162	97	194	97	102
85°	17	41	17	35	17	22
90°	5	18	5	18	5	5
95°	46	210	46	210	46	51
105°	164	1427	164	1427	164	174
115°	292	1838	292	1838	292	288
125°	406	1464	406	1464	406	360
135°	484	1136	484	1136	484	374
145°	561	921	561	921	561	351
155°	634	793	634	793	634	291
165°	684	739	684	739	684	193
175°	711	716	711	716	711	68
180°	711	711	711	711	711	



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CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1100.9	1100.9	1107.2	1109.3	1109.3	1106.1	1103.0	1106.1	1115.4	1118.5	1117.5
5°	1096.9	1105.1	1116.5	1118.5	1120.6	1119.6	1117.5	1119.6	1129.9	1132.0	1133.0
7.5°	1088.5	1104.1	1118.5	1121.7	1124.7	1121.7	1120.6	1122.7	1133.0	1135.1	1135.1
10°	1078.2	1099.9	1116.5	1118.5	1121.7	1118.5	1118.5	1122.7	1133.0	1135.1	1136.1
12.5°	1063.8	1093.7	1109.3	1111.3	1115.4	1114.4	1113.3	1117.5	1127.8	1129.9	1129.9
15°	1047.3	1082.4	1096.9	1098.9	1106.1	1104.1	1104.1	1108.2	1119.6	1122.7	1121.7
17.5°	1024.6	1067.9	1084.5	1087.5	1092.7	1091.7	1092.7	1096.9	1107.2	1109.3	1110.3
20°	998.7	1048.3	1067.9	1071.0	1076.2	1076.2	1076.2	1081.3	1091.7	1095.8	1095.8
22.5°	963.6	1027.6	1048.3	1050.4	1056.6	1056.6	1058.6	1065.8	1075.2	1076.2	1076.2
25°	922.3	1004.9	1022.5	1028.6	1034.9	1038.0	1041.0	1045.2	1048.3	1047.3	1048.3
27.5°	879.0	976.0	998.7	1002.8	1011.1	1014.2	1018.3	1019.4	1020.4	1023.5	1021.5
30°	830.4	935.7	969.8	974.0	987.4	989.4	985.3	987.4	992.5	994.6	996.7
32.5°	775.6	875.8	939.9	949.2	961.6	955.3	954.3	957.4	965.7	965.7	967.7
35°	701.2	829.4	912.0	920.2	929.5	922.3	926.5	927.5	932.6	935.7	934.7
37.5°	619.7	789.1	883.0	889.3	896.5	887.2	893.4	896.5	900.6	898.5	898.5
40°	547.4	726.0	849.0	853.1	859.3	852.1	858.2	860.3	862.4	860.3	859.3
42.5°	493.6	656.9	812.8	818.0	813.8	819.0	821.1	825.2	822.1	818.0	818.0
45°	452.4	638.3	773.5	779.8	773.5	781.9	784.9	784.9	775.6	773.5	772.5
47.5°	439.0	601.1	734.3	734.3	731.2	741.6	746.7	739.5	730.2	727.1	727.1
50°	437.9	559.8	680.6	676.5	690.9	703.3	698.2	690.9	683.7	672.4	672.4
52.5°	397.6	509.2	611.5	626.9	649.6	656.9	648.6	641.4	629.0	623.8	619.7
55°	368.7	456.5	548.4	579.4	603.1	612.5	597.0	589.7	571.1	568.0	566.0
57.5°	362.5	380.1	490.6	529.8	558.7	557.7	548.4	535.0	519.5	516.4	515.4
60°	332.6	274.7	428.6	475.1	505.0	502.0	493.6	481.2	466.9	464.8	462.7
62.5°	301.6	199.4	358.4	411.0	453.4	452.4	445.1	426.6	416.2	411.0	406.9
65°	256.1	167.3	255.1	341.9	402.8	404.9	389.4	375.9	364.6	358.4	357.4
67.5°	195.2	136.4	172.5	285.1	354.3	352.2	332.6	326.4	311.9	308.8	302.6
70°	144.6	90.9	119.8	231.4	306.8	301.6	286.1	278.9	265.4	258.2	254.1
72.5°	119.8	73.3	87.8	179.7	258.2	252.0	238.5	230.3	219.0	212.8	208.6
75°	97.1	77.5	67.1	133.2	209.7	205.5	193.1	184.9	175.6	167.3	168.3
77.5°	71.3	72.3	53.7	98.1	166.3	160.1	152.8	142.5	138.4	130.1	130.1
80°	53.7	56.8	40.3	67.1	119.8	119.8	113.6	106.4	99.2	95.0	95.0
82.5°	36.1	36.1	30.0	42.4	81.6	78.5	74.4	72.3	68.1	66.1	66.1
85°	16.6	20.6	18.6	25.8	44.4	46.5	46.5	44.4	43.4	41.3	42.4
87.5°	5.2	9.3	11.4	14.5	22.7	23.8	24.8	24.8	24.8	25.8	25.8
90°	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2	18.2	18.2
92.5°	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6	90.7	87.1
95°	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3	307.9	297.0
97.5°	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8	710.9	690.1
100°	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8	998.2	973.4
102.5°	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9	1243.6	1222.4
105°	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9	1530.0	1518.6
107.5°	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1	1679.0	1681.8
110°	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7	1717.2	1729.0



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0	1692.8	1711.1
115°	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6	1610.2	1635.6
117.5°	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6	1496.1	1524.1
120°	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6	1419.3	1446.5
122.5°	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7	1342.4	1369.3
125°	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8	1240.7	1265.5
127.5°	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1	1159.1	1179.9
130°	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5	1107.6	1126.9
132.5°	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1	1063.6	1080.9
135°	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8	1001.5	1016.5
137.5°	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0	955.7	967.9
140°	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3	919.0	930.4
142.5°	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1	893.2	903.0
145°	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8	854.5	861.9
147.5°	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1	822.1	828.2
150°	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7	803.4	808.4
152.5°	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8	788.6	792.4
155°	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1	771.0	773.5
157.5°	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9	755.7	757.4
160°	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8	748.1	749.1
162.5°	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0	740.9	741.8
165°	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7	730.0	731.0
167.5°	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1	725.2	725.6
170°	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1	725.2	725.2
172.5°	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6	721.3	721.0
175°	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1	716.1	716.1
177.5°	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7	715.1	714.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1119.6	1116.5	1119.6	1117.5	1118.5	1115.4	1106.1	1103.0	1106.1	1109.3	1109.3
5°	1133.0	1130.9	1133.0	1133.0	1132.0	1129.9	1119.6	1117.5	1119.6	1120.6	1118.5
7.5°	1137.1	1134.1	1137.1	1135.1	1135.1	1133.0	1122.7	1120.6	1121.7	1124.7	1121.7
10°	1137.1	1134.1	1137.1	1136.1	1135.1	1133.0	1122.7	1118.5	1118.5	1121.7	1118.5
12.5°	1132.0	1129.9	1132.0	1129.9	1129.9	1127.8	1117.5	1113.3	1114.4	1115.4	1111.3
15°	1123.7	1120.6	1123.7	1121.7	1122.7	1119.6	1108.2	1104.1	1104.1	1106.1	1098.9
17.5°	1111.3	1107.2	1111.3	1110.3	1109.3	1107.2	1096.9	1092.7	1091.7	1092.7	1087.5
20°	1096.9	1093.7	1096.9	1095.8	1095.8	1091.7	1081.3	1076.2	1076.2	1076.2	1071.0
22.5°	1074.2	1071.0	1074.2	1076.2	1076.2	1075.2	1065.8	1058.6	1056.6	1056.6	1050.4
25°	1048.3	1045.2	1048.3	1048.3	1047.3	1048.3	1045.2	1041.0	1038.0	1034.9	1028.6
27.5°	1023.5	1021.5	1023.5	1021.5	1023.5	1020.4	1019.4	1018.3	1014.2	1011.1	1002.8
30°	998.7	996.7	998.7	996.7	994.6	992.5	987.4	985.3	989.4	987.4	974.0
32.5°	967.7	965.7	967.7	967.7	965.7	965.7	957.4	954.3	955.3	961.6	949.2
35°	935.7	932.6	935.7	934.7	935.7	932.6	927.5	926.5	922.3	929.5	920.2
37.5°	898.5	895.4	898.5	898.5	898.5	900.6	896.5	893.4	887.2	896.5	889.3
40°	860.3	856.2	860.3	859.3	860.3	862.4	860.3	858.2	852.1	859.3	853.1
42.5°	817.0	815.9	817.0	818.0	818.0	822.1	825.2	821.1	819.0	813.8	818.0
45°	770.5	768.4	770.5	772.5	773.5	775.6	784.9	784.9	781.9	773.5	779.8
47.5°	720.9	715.7	720.9	727.1	727.1	730.2	739.5	746.7	741.6	731.2	734.3
50°	668.2	669.3	668.2	672.4	672.4	683.7	690.9	698.2	703.3	690.9	676.5
52.5°	616.6	615.5	616.6	619.7	623.8	629.0	641.4	648.6	656.9	649.6	626.9
55°	564.9	567.0	564.9	566.0	568.0	571.1	589.7	597.0	612.5	603.1	579.4
57.5°	513.3	510.2	513.3	515.4	516.4	519.5	535.0	548.4	557.7	558.7	529.8
60°	453.4	449.3	453.4	462.7	464.8	466.9	481.2	493.6	502.0	505.0	475.1
62.5°	400.7	393.5	400.7	406.9	411.0	416.2	426.6	445.1	452.4	453.4	411.0
65°	345.0	341.9	345.0	357.4	358.4	364.6	375.9	389.4	404.9	402.8	341.9
67.5°	294.4	294.4	294.4	302.6	308.8	311.9	326.4	332.6	352.2	354.3	285.1
70°	247.9	246.9	247.9	254.1	258.2	265.4	278.9	286.1	301.6	306.8	231.4
72.5°	203.4	202.4	203.4	208.6	212.8	219.0	230.3	238.5	252.0	258.2	179.7
75°	164.2	162.2	164.2	168.3	167.3	175.6	184.9	193.1	205.5	209.7	133.2
77.5°	126.0	126.0	126.0	130.1	130.1	138.4	142.5	152.8	160.1	166.3	98.1
80°	94.0	92.9	94.0	95.0	95.0	99.2	106.4	113.6	119.8	119.8	67.1
82.5°	66.1	64.1	66.1	66.1	66.1	68.1	72.3	74.4	78.5	81.6	42.4
85°	41.3	41.3	41.3	42.4	41.3	43.4	44.4	46.5	46.5	44.4	25.8
87.5°	26.9	25.8	26.9	25.8	25.8	24.8	24.8	24.8	23.8	22.7	14.5
90°	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2	21.0	13.4
92.5°	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4	129.6	92.2
95°	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4	318.7	179.5
97.5°	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9	429.4	197.2
100°	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1	469.6	212.0
102.5°	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5	488.0	226.8
105°	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1	501.7	248.7
107.5°	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7	504.3	281.2
110°	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6	500.4	299.3



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7	500.6	321.2
115°	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6	505.2	354.2
117.5°	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8	514.7	386.2
120°	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8	522.2	404.8
122.5°	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1	533.2	426.8
125°	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1	548.0	454.9
127.5°	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4	562.9	482.2
130°	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5	573.6	500.3
132.5°	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1	582.4	515.1
135°	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5	592.0	532.3
137.5°	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7	606.3	554.2
140°	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4	615.0	569.0
142.5°	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8	622.4	580.0
145°	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8	631.9	596.8
147.5°	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5	646.0	617.8
150°	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9	653.2	628.7
152.5°	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5	658.0	635.9
155°	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0	668.5	651.7
157.5°	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5	679.0	667.4
160°	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1	683.8	674.5
162.5°	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8	688.9	682.2
165°	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2	696.2	693.2
167.5°	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3	701.9	699.4
170°	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9	706.7	706.6
172.5°	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9	709.9	711.3
177.5°	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7	710.2	711.3
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1107.2	1100.9	1100.9	1090.6	1086.5	1083.4	1078.2	1062.8	1058.6	1054.5	1060.7
5°	1116.5	1105.1	1096.9	1078.2	1062.8	1056.6	1037.0	999.8	975.0	956.3	946.0
7.5°	1118.5	1104.1	1088.5	1059.7	1022.5	1005.9	946.0	877.9	859.3	842.8	832.4
10°	1116.5	1099.9	1078.2	1034.9	947.1	918.1	858.2	813.8	802.5	799.4	802.5
12.5°	1109.3	1093.7	1063.8	991.5	868.6	849.0	813.8	788.0	785.9	791.1	819.0
15°	1096.9	1082.4	1047.3	933.6	825.2	810.7	785.9	776.7	788.0	824.2	907.8
17.5°	1084.5	1067.9	1024.6	876.9	792.2	781.9	764.3	782.9	846.9	895.4	923.3
20°	1067.9	1048.3	998.7	835.5	768.4	759.1	750.8	834.5	883.0	900.6	916.1
22.5°	1048.3	1027.6	963.6	806.7	743.6	736.4	741.6	863.4	883.0	895.4	908.8
25°	1022.5	1004.9	922.3	783.9	724.0	715.7	735.4	860.3	871.7	874.8	901.7
27.5°	998.7	976.0	879.0	763.2	700.2	697.2	740.5	846.9	855.2	858.2	887.2
30°	969.8	935.7	830.4	741.6	675.4	674.4	741.6	830.4	828.3	836.6	865.5
32.5°	939.9	875.8	775.6	714.7	651.7	650.6	734.3	805.6	803.5	814.9	836.6
35°	912.0	829.4	701.2	683.7	621.8	622.8	716.8	776.7	777.7	788.0	801.5
37.5°	883.0	789.1	619.7	649.6	592.8	592.8	693.0	749.8	747.7	750.8	769.5
40°	849.0	726.0	547.4	605.2	566.0	562.9	664.1	720.9	713.6	712.6	738.4
42.5°	812.8	656.9	493.6	546.4	535.0	530.8	629.0	685.8	672.4	675.4	708.5
45°	773.5	638.3	452.4	461.7	503.0	499.9	590.7	645.5	636.2	644.5	678.5
47.5°	734.3	601.1	439.0	383.2	468.9	467.9	548.4	606.2	601.1	609.4	645.5
50°	680.6	559.8	437.9	328.4	430.7	434.8	497.8	568.0	568.0	575.3	613.5
52.5°	611.5	509.2	397.6	297.5	386.2	398.6	453.4	535.0	537.1	544.3	578.3
55°	548.4	456.5	368.7	273.7	333.6	360.4	410.0	500.9	505.0	512.3	543.2
57.5°	490.6	380.1	362.5	245.8	285.1	310.8	371.8	467.9	469.9	476.1	506.0
60°	428.6	274.7	332.6	215.8	242.7	262.3	336.7	428.6	435.8	440.0	465.8
62.5°	358.4	199.4	301.6	195.2	222.1	226.1	307.8	391.5	400.7	403.9	419.3
65°	255.1	167.3	256.1	177.6	200.4	201.4	276.8	353.2	361.5	366.7	378.0
67.5°	172.5	136.4	195.2	161.1	183.9	184.9	246.9	308.8	320.2	324.3	331.6
70°	119.8	90.9	144.6	143.5	165.2	167.3	214.8	268.5	278.9	282.0	286.1
72.5°	87.8	73.3	119.8	129.1	145.6	147.7	181.8	223.1	233.4	236.5	238.5
75°	67.1	77.5	97.1	112.6	124.0	125.0	148.7	181.8	189.0	191.0	192.1
77.5°	53.7	72.3	71.3	90.9	101.2	99.2	116.7	140.4	146.7	146.7	146.7
80°	40.3	56.8	53.7	65.1	74.4	72.3	83.6	100.2	102.3	104.3	103.3
82.5°	30.0	36.1	36.1	41.3	49.6	47.5	55.7	65.1	65.1	65.1	67.1
85°	18.6	20.6	16.6	21.7	27.9	26.9	31.0	35.1	36.1	36.1	34.1
87.5°	11.4	9.3	5.2	8.2	12.4	12.4	14.5	15.5	14.5	14.5	14.5
90°	12.5	8.6	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2
92.5°	84.1	51.6	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6
95°	164.6	105.3	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3
97.5°	184.1	131.7	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8
100°	200.1	152.5	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8
102.5°	215.7	171.3	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9
105°	239.3	201.8	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9
107.5°	272.4	237.5	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1
110°	291.4	259.8	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	313.7	283.6	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0
115°	347.3	319.5	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6
117.5°	379.9	354.7	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6
120°	398.9	375.1	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6
122.5°	420.8	396.9	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7
125°	449.4	427.7	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8
127.5°	476.6	454.6	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1
130°	494.3	470.5	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5
132.5°	509.2	485.4	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1
135°	526.9	505.2	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8
137.5°	548.9	527.4	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0
140°	564.1	544.4	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3
142.5°	575.5	557.2	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1
145°	592.7	576.9	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8
147.5°	613.9	598.4	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1
150°	625.2	611.2	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7
152.5°	633.2	622.6	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8
155°	649.6	641.8	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1
157.5°	665.4	657.8	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9
160°	673.1	667.1	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8
162.5°	681.1	676.6	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0
165°	692.2	688.1	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7
167.5°	698.9	697.0	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1
170°	706.1	704.2	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1
172.5°	706.9	706.5	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6
175°	711.3	711.3	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1
177.5°	711.3	711.3	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1053.4	1050.4	1054.5	1043.1	1054.5	1050.4	1053.4	1060.7	1054.5	1058.6	1062.8
5°	924.4	919.2	902.7	889.3	902.7	919.2	924.4	946.0	956.3	975.0	999.8
7.5°	826.2	822.1	818.0	809.7	818.0	822.1	826.2	832.4	842.8	859.3	877.9
10°	804.6	805.6	811.8	810.7	811.8	805.6	804.6	802.5	799.4	802.5	813.8
12.5°	860.3	869.6	903.7	901.7	903.7	869.6	860.3	819.0	791.1	785.9	788.0
15°	924.4	927.5	934.7	935.7	934.7	927.5	924.4	907.8	824.2	788.0	776.7
17.5°	930.5	931.6	936.8	936.8	936.8	931.6	930.5	923.3	895.4	846.9	782.9
20°	925.4	927.5	937.8	939.9	937.8	927.5	925.4	916.1	900.6	883.0	834.5
22.5°	923.3	927.5	935.7	934.7	935.7	927.5	923.3	908.8	895.4	883.0	863.4
25°	913.0	913.0	914.1	915.1	914.1	913.0	913.0	901.7	874.8	871.7	860.3
27.5°	891.3	893.4	899.6	898.5	899.6	893.4	891.3	887.2	858.2	855.2	846.9
30°	871.7	869.6	864.5	860.3	864.5	869.6	871.7	865.5	836.6	828.3	830.4
32.5°	838.6	833.4	828.3	825.2	828.3	833.4	838.6	836.6	814.9	803.5	805.6
35°	799.4	800.4	799.4	796.3	799.4	800.4	799.4	801.5	788.0	777.7	776.7
37.5°	771.5	773.5	772.5	768.4	772.5	773.5	771.5	769.5	750.8	747.7	749.8
40°	742.6	743.6	742.6	739.5	742.6	743.6	742.6	738.4	712.6	713.6	720.9
42.5°	714.7	713.6	710.6	708.5	710.6	713.6	714.7	708.5	675.4	672.4	685.8
45°	682.7	683.7	677.5	674.4	677.5	683.7	682.7	678.5	644.5	636.2	645.5
47.5°	650.6	650.6	645.5	642.4	645.5	650.6	650.6	645.5	609.4	601.1	606.2
50°	616.6	615.5	608.3	607.3	608.3	615.5	616.6	613.5	575.3	568.0	568.0
52.5°	577.3	577.3	578.3	580.4	578.3	577.3	577.3	578.3	544.3	537.1	535.0
55°	543.2	544.3	551.6	553.6	551.6	544.3	543.2	543.2	512.3	505.0	500.9
57.5°	508.1	508.1	513.3	513.3	513.3	508.1	508.1	506.0	476.1	469.9	467.9
60°	467.9	469.9	474.1	473.0	474.1	469.9	467.9	465.8	440.0	435.8	428.6
62.5°	425.5	427.6	428.6	426.6	428.6	427.6	425.5	419.3	403.9	400.7	391.5
65°	381.1	383.2	384.2	382.2	384.2	383.2	381.1	378.0	366.7	361.5	353.2
67.5°	335.6	334.6	333.6	337.7	333.6	334.6	335.6	331.6	324.3	320.2	308.8
70°	289.2	289.2	288.1	290.2	288.1	289.2	289.2	286.1	282.0	278.9	268.5
72.5°	239.6	238.5	242.7	239.6	242.7	238.5	239.6	238.5	236.5	233.4	223.1
75°	191.0	193.1	191.0	194.2	191.0	193.1	191.0	192.1	191.0	189.0	181.8
77.5°	145.6	147.7	145.6	145.6	145.6	147.7	145.6	146.7	146.7	146.7	140.4
80°	103.3	102.3	102.3	101.2	102.3	102.3	103.3	103.3	104.3	102.3	100.2
82.5°	66.1	65.1	65.1	67.1	65.1	65.1	66.1	67.1	65.1	65.1	65.1
85°	36.1	37.2	35.1	35.1	35.1	37.2	36.1	34.1	36.1	36.1	35.1
87.5°	13.4	12.4	12.4	12.4	12.4	12.4	13.4	14.5	14.5	14.5	15.5
90°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2
92.5°	90.7	87.1	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4
95°	307.9	297.0	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4
97.5°	710.9	690.1	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9
100°	998.2	973.4	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1
102.5°	1243.6	1222.4	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5
105°	1530.0	1518.6	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1
107.5°	1679.0	1681.8	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7
110°	1717.2	1729.0	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1692.8	1711.1	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7
115°	1610.2	1635.6	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6
117.5°	1496.1	1524.1	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8
120°	1419.3	1446.5	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8
122.5°	1342.4	1369.3	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1
125°	1240.7	1265.5	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1
127.5°	1159.1	1179.9	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4
130°	1107.6	1126.9	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5
132.5°	1063.6	1080.9	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1
135°	1001.5	1016.5	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5
137.5°	955.7	967.9	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7
140°	919.0	930.4	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4
142.5°	893.2	903.0	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8
145°	854.5	861.9	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8
147.5°	822.1	828.2	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5
150°	803.4	808.4	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9
152.5°	788.6	792.4	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5
155°	771.0	773.5	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0
157.5°	755.7	757.4	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5
160°	748.1	749.1	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1
162.5°	740.9	741.8	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8
165°	730.0	731.0	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2
167.5°	725.2	725.6	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3
170°	725.2	725.2	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9
172.5°	721.3	721.0	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9
177.5°	715.1	714.7	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1078.2	1083.4	1086.5	1090.6	1100.9
5°	1037.0	1056.6	1062.8	1078.2	1096.9
7.5°	946.0	1005.9	1022.5	1059.7	1088.5
10°	858.2	918.1	947.1	1034.9	1078.2
12.5°	813.8	849.0	868.6	991.5	1063.8
15°	785.9	810.7	825.2	933.6	1047.3
17.5°	764.3	781.9	792.2	876.9	1024.6
20°	750.8	759.1	768.4	835.5	998.7
22.5°	741.6	736.4	743.6	806.7	963.6
25°	735.4	715.7	724.0	783.9	922.3
27.5°	740.5	697.2	700.2	763.2	879.0
30°	741.6	674.4	675.4	741.6	830.4
32.5°	734.3	650.6	651.7	714.7	775.6
35°	716.8	622.8	621.8	683.7	701.2
37.5°	693.0	592.8	592.8	649.6	619.7
40°	664.1	562.9	566.0	605.2	547.4
42.5°	629.0	530.8	535.0	546.4	493.6
45°	590.7	499.9	503.0	461.7	452.4
47.5°	548.4	467.9	468.9	383.2	439.0
50°	497.8	434.8	430.7	328.4	437.9
52.5°	453.4	398.6	386.2	297.5	397.6
55°	410.0	360.4	333.6	273.7	368.7
57.5°	371.8	310.8	285.1	245.8	362.5
60°	336.7	262.3	242.7	215.8	332.6
62.5°	307.8	226.1	222.1	195.2	301.6
65°	276.8	201.4	200.4	177.6	256.1
67.5°	246.9	184.9	183.9	161.1	195.2
70°	214.8	167.3	165.2	143.5	144.6
72.5°	181.8	147.7	145.6	129.1	119.8
75°	148.7	125.0	124.0	112.6	97.1
77.5°	116.7	99.2	101.2	90.9	71.3
80°	83.6	72.3	74.4	65.1	53.7
82.5°	55.7	47.5	49.6	41.3	36.1
85°	31.0	26.9	27.9	21.7	16.6
87.5°	14.5	12.4	12.4	8.2	5.2
90°	21.0	13.4	12.5	8.6	4.8
92.5°	129.6	92.2	84.1	51.6	19.1
95°	318.7	179.5	164.6	105.3	45.8
97.5°	429.4	197.2	184.1	131.7	79.2
100°	469.6	212.0	200.1	152.5	105.0
102.5°	488.0	226.8	215.7	171.3	127.0
105°	501.7	248.7	239.3	201.8	164.2
107.5°	504.3	281.2	272.4	237.5	202.4
110°	500.4	299.3	291.4	259.8	228.2



TEST NUMBER: P934624

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	500.6	321.2	313.7	283.6	253.5
115°	505.2	354.2	347.3	319.5	291.7
117.5°	514.7	386.2	379.9	354.7	329.4
120°	522.2	404.8	398.9	375.1	351.4
122.5°	533.2	426.8	420.8	396.9	372.8
125°	548.0	454.9	449.4	427.7	405.8
127.5°	562.9	482.2	476.6	454.6	432.5
130°	573.6	500.3	494.3	470.5	446.8
132.5°	582.4	515.1	509.2	485.4	461.6
135°	592.0	532.3	526.9	505.2	483.6
137.5°	606.3	554.2	548.9	527.4	506.0
140°	615.0	569.0	564.1	544.4	524.7
142.5°	622.4	580.0	575.5	557.2	539.0
145°	631.9	596.8	592.7	576.9	560.9
147.5°	646.0	617.8	613.9	598.4	582.9
150°	653.2	628.7	625.2	611.2	597.2
152.5°	658.0	635.9	633.2	622.6	612.0
155°	668.5	651.7	649.6	641.8	633.9
157.5°	679.0	667.4	665.4	657.8	650.2
160°	683.8	674.5	673.1	667.1	661.2
162.5°	688.9	682.2	681.1	676.6	672.1
165°	696.2	693.2	692.2	688.1	684.1
167.5°	701.9	699.4	698.9	697.0	695.1
170°	706.7	706.6	706.1	704.2	702.2
172.5°	707.0	707.0	706.9	706.5	706.1
175°	709.9	711.3	711.3	711.3	711.3
177.5°	710.2	711.3	711.3	711.3	711.3
180°	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934624
 CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-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	9.23	9.99	10.28	11.05	12.48	12.07	12.83	13.12	13.89	15.32
	3H	9.70	10.38	10.76	11.45	12.90	13.41	14.09	14.47	15.16	16.61
	4H	9.88	10.53	10.96	11.60	13.06	13.85	14.50	14.92	15.56	17.02
	6H	10.00	10.59	11.08	11.67	13.14	14.13	14.73	15.21	15.80	17.27
	8H	10.00	10.56	11.08	11.65	13.11	14.20	14.77	15.29	15.86	17.32
	12H	9.96	10.50	11.06	11.58	13.07	14.24	14.78	15.33	15.86	17.35
4H	2H	10.25	10.90	11.33	11.97	13.42	12.46	13.11	13.54	14.18	15.64
	3H	11.27	11.81	12.36	12.90	14.37	13.96	14.50	15.05	15.60	17.07
	4H	11.54	12.04	12.63	13.12	14.61	14.49	14.98	15.58	16.07	17.56
	6H	11.66	12.08	12.76	13.19	14.68	14.85	15.27	15.95	16.38	17.87
	8H	11.66	12.06	12.76	13.16	14.66	14.95	15.35	16.06	16.45	17.95
	12H	11.63	11.98	12.74	13.10	14.60	15.01	15.37	16.13	16.48	17.99
8H	4H	11.99	12.38	13.09	13.48	14.99	14.60	15.00	15.70	16.10	17.60
	6H	12.24	12.57	13.37	13.71	15.21	15.04	15.36	16.16	16.51	18.01
	8H	12.29	12.57	13.42	13.70	15.21	15.19	15.48	16.32	16.60	18.12
	12H	12.27	12.52	13.40	13.64	15.19	15.28	15.54	16.42	16.66	18.21
12H	4H	11.99	12.35	13.11	13.46	14.97	14.56	14.92	15.68	16.04	17.54
	6H	12.30	12.59	13.44	13.72	15.23	15.03	15.32	16.16	16.44	17.96
	8H	12.37	12.62	13.50	13.74	15.29	15.19	15.44	16.33	16.56	18.12