

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: P935922

Luminaire Tested: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935922
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

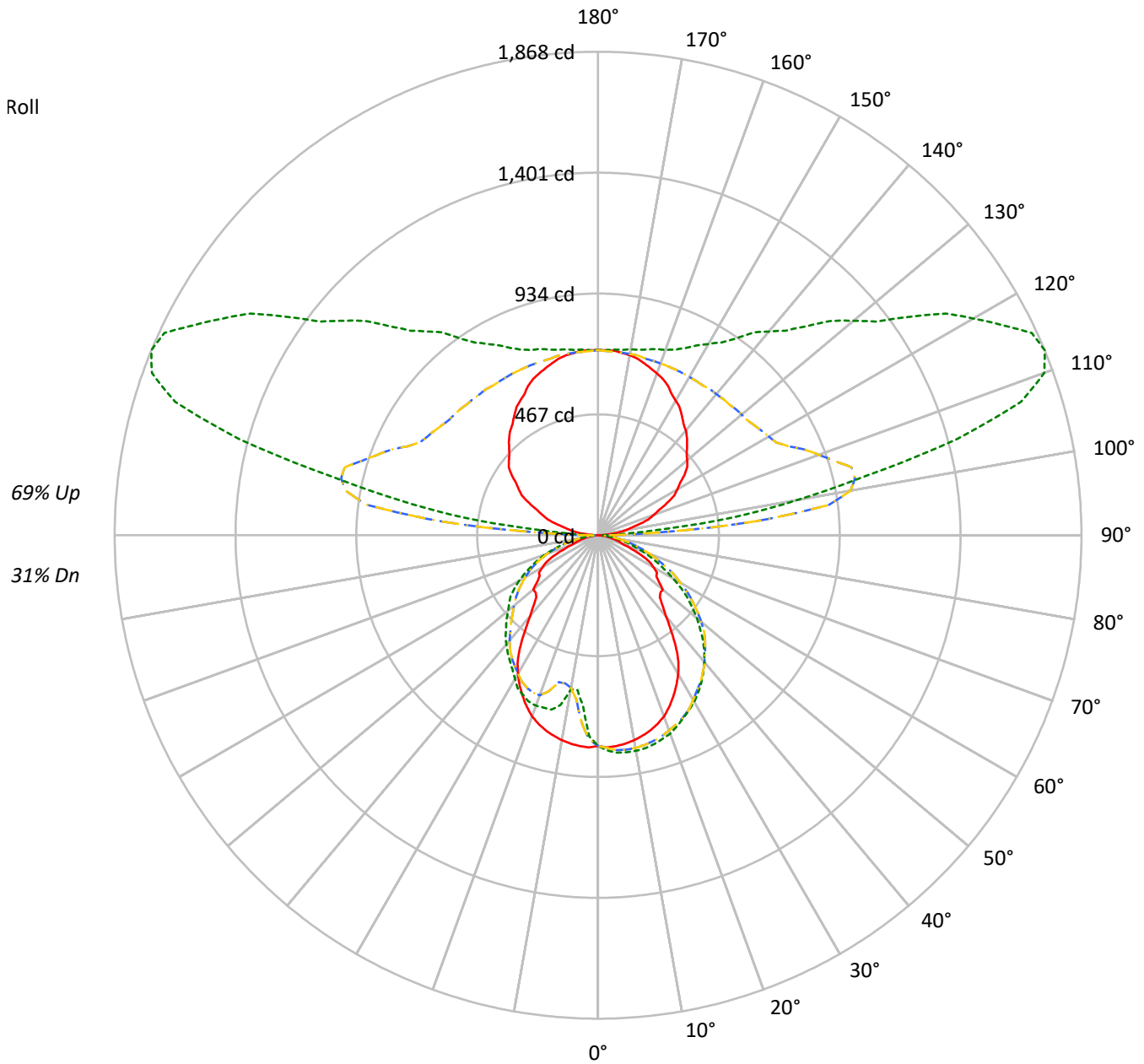
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6752.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 63.6
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: P935922
CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



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



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7553	7553	7553	7553
5°	7601	7625	7601	5995
10°	7542	7511	7542	5369
15°	7452	7348	7452	6136
20°	7287	7155	7287	6149
25°	6960	6874	6960	6018
30°	6540	6640	6540	5732
35°	5821	6345	5821	5417
40°	4843	5998	4843	5180
45°	4318	5591	4318	4907
50°	4578	5105	4578	4633
55°	4296	4583	4296	4475
60°	4410	3892	4410	4098
65°	3980	3217	3980	3597
70°	2737	2563	2737	3015
75°	2374	1895	2374	2270
80°	1872	1253	1872	1365
85°	1019	664	1019	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6631 cd/sqm



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.1
10°-20°	208.6	3.1
20°-30°	322.5	4.8
30°-40°	385.0	5.7
40°-50°	387.3	5.7
50°-60°	337.0	5.0
60°-70°	238.9	3.5
70°-80°	126.4	1.9
80°-90°	34.2	0.5
90°-100°	348.8	5.2
100°-110°	917.1	13.6
110°-120°	950.9	14.1
120°-130°	762.7	11.3
130°-140°	598.5	8.9
140°-150°	459.3	6.8
150°-160°	330.8	4.9
160°-170°	202.4	3.0
170°-180°	68.4	1.0
0°-30°	604.6	9.0
0°-40°	989.6	14.7
0°-60°	1713.8	25.4
0°-90°	2113.3	31.3
90°-120°	2216.7	32.8
90°-150°	4037.3	59.8
90°-180°	4639.0	68.7
0°-180°	6752.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	818	843	818	663	818	78
15°	781	836	781	698	781	220
25°	688	779	688	682	688	316
35°	523	695	523	594	523	324
45°	337	573	337	503	337	270
55°	275	423	275	413	275	253
65°	191	255	191	285	191	182
75°	72	121	72	145	72	76
85°	12	31	12	26	12	17
90°	5	18	5	18	5	4
95°	46	211	46	211	46	51
105°	165	1436	165	1436	165	175
115°	293	1849	293	1849	293	290
125°	408	1472	408	1472	408	362
135°	486	1142	486	1142	486	376
145°	564	927	564	927	564	354
155°	638	798	638	798	638	293
165°	688	743	688	743	688	194
175°	716	720	716	720	716	68
180°	716	716	716	716	716	



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	820.9	820.9	825.6	827.1	827.1	824.8	822.5	824.8	831.8	834.1	833.3
5°	817.8	824.1	832.5	834.1	835.6	834.8	833.3	834.8	842.5	844.1	844.8
7.5°	811.7	823.3	834.1	836.4	838.7	836.4	835.6	837.1	844.8	846.4	846.4
10°	804.0	820.1	832.5	834.1	836.4	834.1	834.1	837.1	844.8	846.4	847.2
12.5°	793.2	815.5	827.1	828.7	831.8	831.0	830.2	833.3	841.0	842.5	842.5
15°	780.9	807.0	817.8	819.4	824.8	823.3	823.3	826.4	834.8	837.1	836.4
17.5°	763.9	796.3	808.6	810.9	814.7	814.0	814.7	817.8	825.6	827.1	827.9
20°	744.7	781.6	796.3	798.6	802.4	802.4	802.4	806.3	814.0	817.0	817.0
22.5°	718.5	766.2	781.6	783.2	787.8	787.8	789.3	794.7	801.6	802.4	802.4
25°	687.7	749.3	762.4	767.0	771.6	773.9	776.2	779.3	781.6	780.9	781.6
27.5°	655.3	727.7	744.7	747.7	753.9	756.2	759.3	760.1	760.8	763.1	761.6
30°	619.2	697.7	723.1	726.2	736.2	737.7	734.7	736.2	740.0	741.6	743.1
32.5°	578.3	653.0	700.8	707.7	716.9	712.3	711.6	713.9	720.0	720.0	721.6
35°	522.9	618.4	680.0	686.1	693.1	687.7	690.8	691.5	695.4	697.7	696.9
37.5°	462.1	588.4	658.4	663.0	668.4	661.5	666.1	668.4	671.5	670.0	670.0
40°	408.2	541.4	633.0	636.1	640.7	635.3	639.9	641.5	643.0	641.5	640.7
42.5°	368.1	489.8	606.1	609.9	606.8	610.7	612.2	615.3	613.0	609.9	609.9
45°	337.3	475.9	576.8	581.4	576.8	583.0	585.3	585.3	578.3	576.8	576.0
47.5°	327.3	448.2	547.5	547.5	545.2	552.9	556.8	551.4	544.5	542.2	542.2
50°	326.6	417.4	507.5	504.4	515.2	524.4	520.6	515.2	509.8	501.3	501.3
52.5°	296.5	379.7	455.9	467.5	484.4	489.8	483.6	478.2	469.0	465.2	462.1
55°	275.0	340.4	408.9	432.0	449.8	456.7	445.1	439.7	425.9	423.6	422.0
57.5°	270.3	283.4	365.8	395.1	416.6	415.9	408.9	398.9	387.4	385.1	384.3
60°	247.9	204.8	319.6	354.3	376.6	374.3	368.1	358.9	348.1	346.6	345.0
62.5°	224.8	148.6	267.2	306.5	338.1	337.3	331.9	318.1	310.4	306.5	303.5
65°	191.0	124.7	190.2	254.9	300.4	301.9	290.4	280.4	271.8	267.2	266.4
67.5°	145.5	101.6	128.6	212.5	264.1	262.6	247.9	243.3	232.5	230.2	225.6
70°	107.8	67.8	89.3	172.5	228.7	224.8	213.3	207.9	197.9	192.5	189.4
72.5°	89.3	54.7	65.4	134.0	192.5	187.9	177.9	171.7	163.2	158.6	155.5
75°	72.4	57.8	50.1	99.3	156.3	153.2	144.0	137.8	130.9	124.7	125.5
77.5°	53.1	53.9	40.0	73.2	124.0	119.4	114.0	106.3	103.2	97.0	97.0
80°	40.0	42.4	30.0	50.1	89.3	89.3	84.7	79.3	73.9	70.8	70.8
82.5°	27.0	27.0	22.3	31.6	60.8	58.5	55.4	53.9	50.8	49.3	49.3
85°	12.3	15.4	13.9	19.2	33.1	34.6	34.6	33.1	32.3	30.8	31.6
87.5°	3.8	6.9	8.5	10.8	16.9	17.7	18.5	18.5	18.5	19.2	19.2
90°	4.8	8.6	12.5	13.5	21.2	31.4	36.5	32.4	24.3	18.2	18.2
92.5°	19.2	51.8	84.5	92.7	130.3	180.4	205.5	180.1	129.4	91.2	87.6
95°	46.1	105.9	165.6	180.6	320.6	507.4	600.8	536.2	406.8	309.8	298.8
97.5°	79.7	132.4	185.2	198.4	431.9	743.4	899.1	858.2	776.4	715.1	694.2
100°	105.6	153.5	201.3	213.2	472.4	818.0	990.8	993.8	999.8	1004.2	979.3
102.5°	127.7	172.4	217.0	228.2	491.0	841.5	1016.7	1068.8	1172.9	1251.1	1229.8
105°	165.2	203.0	240.8	250.2	504.7	844.1	1013.8	1130.5	1364.1	1539.2	1527.8
107.5°	203.7	238.9	274.1	282.9	507.4	806.6	956.2	1119.0	1444.8	1689.1	1691.8
110°	229.5	261.3	293.2	301.1	503.5	773.2	908.1	1090.2	1454.4	1727.5	1739.4



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	255.0	285.4	315.7	323.2	503.7	744.2	864.5	1050.8	1423.5	1703.0	1721.3
115°	293.4	321.4	349.3	356.4	508.3	710.9	812.1	991.6	1350.7	1619.9	1645.4
117.5°	331.4	356.8	382.2	388.5	517.7	690.0	776.1	938.1	1262.1	1505.1	1533.4
120°	353.4	377.4	401.2	407.3	525.4	682.9	761.7	909.7	1205.7	1427.8	1455.2
122.5°	375.1	399.2	423.3	429.4	536.5	679.3	750.7	884.0	1150.5	1350.5	1377.5
125°	408.3	430.2	452.2	457.7	551.3	676.2	738.7	851.9	1078.3	1248.2	1273.1
127.5°	435.1	457.3	479.5	485.0	566.2	674.4	728.6	825.8	1020.2	1166.1	1187.1
130°	449.5	473.4	497.3	503.3	577.1	675.5	724.7	811.3	984.4	1114.2	1133.6
132.5°	464.4	488.3	512.2	518.2	585.9	676.2	721.3	798.8	953.8	1070.0	1087.4
135°	486.5	508.3	530.0	535.5	595.5	675.5	715.6	780.5	910.2	1007.5	1022.6
137.5°	509.0	530.6	552.2	557.6	609.9	679.8	714.6	769.5	879.2	961.5	973.7
140°	527.8	547.7	567.6	572.5	618.8	680.4	711.2	758.6	853.4	924.5	935.9
142.5°	542.2	560.6	578.9	583.5	626.1	682.8	711.2	752.9	836.1	898.6	908.4
145°	564.3	580.3	596.3	600.3	635.7	682.9	706.5	740.5	808.6	859.6	867.1
147.5°	586.4	602.0	617.5	621.5	649.8	687.6	706.5	733.3	786.8	827.0	833.1
150°	600.8	614.9	628.9	632.5	657.1	690.0	706.5	729.1	774.3	808.3	813.3
152.5°	615.7	626.4	637.0	639.7	662.0	691.6	706.5	725.8	764.5	793.4	797.2
155°	637.8	645.7	653.6	655.6	672.5	695.2	706.5	721.9	752.6	775.6	778.2
157.5°	654.1	661.8	669.4	671.4	683.1	698.7	706.5	718.4	742.3	760.2	762.0
160°	665.1	671.1	677.1	678.6	687.9	700.3	706.5	716.7	737.2	752.5	753.5
162.5°	676.2	680.7	685.1	686.3	693.0	702.0	706.5	715.1	732.4	745.4	746.3
165°	688.2	692.2	696.3	697.3	700.4	704.5	706.5	712.6	725.0	734.3	735.3
167.5°	699.2	701.2	703.1	703.5	706.1	709.6	711.2	715.3	723.4	729.5	730.0
170°	706.5	708.4	710.3	710.8	710.9	711.2	711.2	715.3	723.4	729.5	729.5
172.5°	710.3	710.7	711.2	711.2	711.2	711.2	711.2	714.5	720.9	725.6	725.3
175°	715.6	715.6	715.6	715.6	714.1	712.2	711.2	713.3	717.3	720.4	720.4
177.5°	715.6	715.6	715.6	715.6	714.5	713.0	712.2	713.9	717.0	719.4	718.9
180°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	834.8	832.5	834.8	833.3	834.1	831.8	824.8	822.5	824.8	827.1	827.1
5°	844.8	843.3	844.8	844.8	844.1	842.5	834.8	833.3	834.8	835.6	834.1
7.5°	847.9	845.6	847.9	846.4	846.4	844.8	837.1	835.6	836.4	838.7	836.4
10°	847.9	845.6	847.9	847.2	846.4	844.8	837.1	834.1	834.1	836.4	834.1
12.5°	844.1	842.5	844.1	842.5	842.5	841.0	833.3	830.2	831.0	831.8	828.7
15°	837.9	835.6	837.9	836.4	837.1	834.8	826.4	823.3	823.3	824.8	819.4
17.5°	828.7	825.6	828.7	827.9	827.1	825.6	817.8	814.7	814.0	814.7	810.9
20°	817.8	815.5	817.8	817.0	817.0	814.0	806.3	802.4	802.4	802.4	798.6
22.5°	800.9	798.6	800.9	802.4	802.4	801.6	794.7	789.3	787.8	787.8	783.2
25°	781.6	779.3	781.6	781.6	780.9	781.6	779.3	776.2	773.9	771.6	767.0
27.5°	763.1	761.6	763.1	761.6	763.1	760.8	760.1	759.3	756.2	753.9	747.7
30°	744.7	743.1	744.7	743.1	741.6	740.0	736.2	734.7	737.7	736.2	726.2
32.5°	721.6	720.0	721.6	721.6	720.0	720.0	713.9	711.6	712.3	716.9	707.7
35°	697.7	695.4	697.7	696.9	697.7	695.4	691.5	690.8	687.7	693.1	686.1
37.5°	670.0	667.7	670.0	670.0	670.0	671.5	668.4	666.1	661.5	668.4	663.0
40°	641.5	638.4	641.5	640.7	641.5	643.0	641.5	639.9	635.3	640.7	636.1
42.5°	609.1	608.4	609.1	609.9	609.9	613.0	615.3	612.2	610.7	606.8	609.9
45°	574.5	573.0	574.5	576.0	576.8	578.3	585.3	585.3	583.0	576.8	581.4
47.5°	537.5	533.7	537.5	542.2	542.2	544.5	551.4	556.8	552.9	545.2	547.5
50°	498.3	499.0	498.3	501.3	501.3	509.8	515.2	520.6	524.4	515.2	504.4
52.5°	459.8	459.0	459.8	462.1	465.2	469.0	478.2	483.6	489.8	484.4	467.5
55°	421.3	422.8	421.3	422.0	423.6	425.9	439.7	445.1	456.7	449.8	432.0
57.5°	382.8	380.5	382.8	384.3	385.1	387.4	398.9	408.9	415.9	416.6	395.1
60°	338.1	335.0	338.1	345.0	346.6	348.1	358.9	368.1	374.3	376.6	354.3
62.5°	298.8	293.4	298.8	303.5	306.5	310.4	318.1	331.9	337.3	338.1	306.5
65°	257.2	254.9	257.2	266.4	267.2	271.8	280.4	290.4	301.9	300.4	254.9
67.5°	219.4	219.4	219.4	225.6	230.2	232.5	243.3	247.9	262.6	264.1	212.5
70°	184.8	184.0	184.8	189.4	192.5	197.9	207.9	213.3	224.8	228.7	172.5
72.5°	151.7	150.9	151.7	155.5	158.6	163.2	171.7	177.9	187.9	192.5	134.0
75°	122.4	120.9	122.4	125.5	124.7	130.9	137.8	144.0	153.2	156.3	99.3
77.5°	93.9	93.9	93.9	97.0	97.0	103.2	106.3	114.0	119.4	124.0	73.2
80°	70.1	69.3	70.1	70.8	70.8	73.9	79.3	84.7	89.3	89.3	50.1
82.5°	49.3	47.7	49.3	49.3	49.3	50.8	53.9	55.4	58.5	60.8	31.6
85°	30.8	30.8	30.8	31.6	30.8	32.3	33.1	34.6	34.6	33.1	19.2
87.5°	20.0	19.2	20.0	19.2	19.2	18.5	18.5	18.5	17.7	16.9	10.8
90°	18.2	18.2	18.2	18.2	18.2	24.3	32.4	36.5	31.4	21.2	13.5
92.5°	73.1	58.6	73.1	87.6	91.2	129.4	180.1	205.5	180.4	130.3	92.7
95°	254.8	210.8	254.8	298.8	309.8	406.8	536.2	600.8	507.4	320.6	180.6
97.5°	610.5	526.8	610.5	694.2	715.1	776.4	858.2	899.1	743.4	431.9	198.4
100°	879.6	779.9	879.6	979.3	1004.2	999.8	993.8	990.8	818.0	472.4	213.2
102.5°	1144.4	1059.0	1144.4	1229.8	1251.1	1172.9	1068.8	1016.7	841.5	491.0	228.2
105°	1481.9	1436.0	1481.9	1527.8	1539.2	1364.1	1130.5	1013.8	844.1	504.7	250.2
107.5°	1702.9	1714.0	1702.9	1691.8	1689.1	1444.8	1119.0	956.2	806.6	507.4	282.9
110°	1787.2	1835.1	1787.2	1739.4	1727.5	1454.4	1090.2	908.1	773.2	503.5	301.1



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1794.8	1868.2	1794.8	1721.3	1703.0	1423.5	1050.8	864.5	744.2	503.7	323.2
115°	1747.2	1849.0	1747.2	1645.4	1619.9	1350.7	991.6	812.1	710.9	508.3	356.4
117.5°	1646.3	1759.1	1646.3	1533.4	1505.1	1262.1	938.1	776.1	690.0	517.7	388.5
120°	1564.9	1674.7	1564.9	1455.2	1427.8	1205.7	909.7	761.7	682.9	525.4	407.3
122.5°	1485.8	1594.0	1485.8	1377.5	1350.5	1150.5	884.0	750.7	679.3	536.5	429.4
125°	1372.8	1472.5	1372.8	1273.1	1248.2	1078.3	851.9	738.7	676.2	551.3	457.7
127.5°	1271.2	1355.3	1271.2	1187.1	1166.1	1020.2	825.8	728.6	674.4	566.2	485.0
130°	1211.3	1289.0	1211.3	1133.6	1114.2	984.4	811.3	724.7	675.5	577.1	503.3
132.5°	1156.9	1226.5	1156.9	1087.4	1070.0	953.8	798.8	721.3	676.2	585.9	518.2
135°	1082.5	1142.5	1082.5	1022.6	1007.5	910.2	780.5	715.6	675.5	595.5	535.5
137.5°	1022.9	1071.9	1022.9	973.7	961.5	879.2	769.5	714.6	679.8	609.9	557.6
140°	981.8	1027.7	981.8	935.9	924.5	853.4	758.6	711.2	680.4	618.8	572.5
142.5°	947.9	987.4	947.9	908.4	898.6	836.1	752.9	711.2	682.8	626.1	583.5
145°	897.0	926.9	897.0	867.1	859.6	808.6	740.5	706.5	682.9	635.7	600.3
147.5°	857.9	882.7	857.9	833.1	827.0	786.8	733.3	706.5	687.6	649.8	621.5
150°	833.4	853.4	833.4	813.3	808.3	774.3	729.1	706.5	690.0	657.1	632.5
152.5°	812.4	827.4	812.4	797.2	793.4	764.5	725.8	706.5	691.6	662.0	639.7
155°	788.2	798.2	788.2	778.2	775.6	752.6	721.9	706.5	695.2	672.5	655.6
157.5°	769.0	776.1	769.0	762.0	760.2	742.3	718.4	706.5	698.7	683.1	671.4
160°	757.6	761.7	757.6	753.5	752.5	737.2	716.7	706.5	700.3	687.9	678.6
162.5°	750.1	754.0	750.1	746.3	745.4	732.4	715.1	706.5	702.0	693.0	686.3
165°	739.4	743.4	739.4	735.3	734.3	725.0	712.6	706.5	704.5	700.4	697.3
167.5°	731.7	733.3	731.7	730.0	729.5	723.4	715.3	711.2	709.6	706.1	703.5
170°	729.5	729.5	729.5	729.5	729.5	723.4	715.3	711.2	711.2	710.9	710.8
172.5°	723.8	722.3	723.8	725.3	725.6	720.9	714.5	711.2	711.2	711.2	711.2
175°	720.4	720.4	720.4	720.4	720.4	717.3	713.3	711.2	712.2	714.1	715.6
177.5°	717.3	715.6	717.3	718.9	719.4	717.0	713.9	712.2	713.0	714.5	715.6
180°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	825.6	820.9	820.9	813.2	810.1	807.8	804.0	792.4	789.3	786.2	790.9
5°	832.5	824.1	817.8	804.0	792.4	787.8	773.2	745.4	727.0	713.1	705.4
7.5°	834.1	823.3	811.7	790.1	762.4	750.1	705.4	654.6	640.7	628.4	620.7
10°	832.5	820.1	804.0	771.6	706.2	684.6	639.9	606.8	598.4	596.1	598.4
12.5°	827.1	815.5	793.2	739.3	647.6	633.0	606.8	587.6	586.0	589.9	610.7
15°	817.8	807.0	780.9	696.2	615.3	604.5	586.0	579.1	587.6	614.5	676.9
17.5°	808.6	796.3	763.9	653.8	590.7	583.0	569.9	583.7	631.5	667.7	688.5
20°	796.3	781.6	744.7	623.0	573.0	566.0	559.9	622.2	658.4	671.5	683.1
22.5°	781.6	766.2	718.5	601.4	554.5	549.1	552.9	643.8	658.4	667.7	677.7
25°	762.4	749.3	687.7	584.5	539.8	533.7	548.3	641.5	650.0	652.3	672.3
27.5°	744.7	727.7	655.3	569.1	522.1	519.8	552.2	631.5	637.6	639.9	661.5
30°	723.1	697.7	619.2	552.9	503.7	502.9	552.9	619.2	617.6	623.8	645.3
32.5°	700.8	653.0	578.3	532.9	485.9	485.2	547.5	600.7	599.1	607.6	623.8
35°	680.0	618.4	522.9	509.8	463.6	464.4	534.5	579.1	579.9	587.6	597.6
37.5°	658.4	588.4	462.1	484.4	442.1	442.1	516.7	559.1	557.6	559.9	573.7
40°	633.0	541.4	408.2	451.3	422.0	419.7	495.2	537.5	532.1	531.4	550.6
42.5°	606.1	489.8	368.1	407.4	398.9	395.9	469.0	511.4	501.3	503.7	528.3
45°	576.8	475.9	337.3	344.3	375.1	372.8	440.5	481.3	474.4	480.6	506.0
47.5°	547.5	448.2	327.3	285.7	349.7	348.9	408.9	452.1	448.2	454.4	481.3
50°	507.5	417.4	326.6	244.9	321.2	324.2	371.2	423.6	423.6	429.0	457.5
52.5°	455.9	379.7	296.5	221.8	288.1	297.3	338.1	398.9	400.5	405.9	431.3
55°	408.9	340.4	275.0	204.0	248.7	268.7	305.8	373.5	376.6	382.0	405.1
57.5°	365.8	283.4	270.3	183.3	212.5	231.8	277.3	348.9	350.4	355.0	377.4
60°	319.6	204.8	247.9	160.9	181.0	195.6	251.0	319.6	325.0	328.1	347.3
62.5°	267.2	148.6	224.8	145.5	165.6	168.6	229.5	291.9	298.8	301.1	312.7
65°	190.2	124.7	191.0	132.4	149.4	150.2	206.4	263.3	269.5	273.4	281.9
67.5°	128.6	101.6	145.5	120.1	137.1	137.8	184.0	230.2	238.7	241.8	247.2
70°	89.3	67.8	107.8	107.0	123.2	124.7	160.2	200.2	207.9	210.2	213.3
72.5°	65.4	54.7	89.3	96.2	108.6	110.1	135.5	166.3	174.0	176.3	177.9
75°	50.1	57.8	72.4	83.9	92.4	93.2	110.9	135.5	140.9	142.5	143.2
77.5°	40.0	53.9	53.1	67.8	75.5	73.9	87.0	104.7	109.3	109.3	109.3
80°	30.0	42.4	40.0	48.5	55.4	53.9	62.4	74.7	76.2	77.8	77.0
82.5°	22.3	27.0	27.0	30.8	37.0	35.4	41.6	48.5	48.5	48.5	50.1
85°	13.9	15.4	12.3	16.2	20.8	20.0	23.1	26.2	27.0	27.0	25.4
87.5°	8.5	6.9	3.8	6.2	9.2	9.2	10.8	11.6	10.8	10.8	10.8
90°	12.5	8.6	4.8	8.6	12.5	13.5	21.2	31.4	36.5	32.4	24.3
92.5°	84.5	51.8	19.2	51.8	84.5	92.7	130.3	180.4	205.5	180.1	129.4
95°	165.6	105.9	46.1	105.9	165.6	180.6	320.6	507.4	600.8	536.2	406.8
97.5°	185.2	132.4	79.7	132.4	185.2	198.4	431.9	743.4	899.1	858.2	776.4
100°	201.3	153.5	105.6	153.5	201.3	213.2	472.4	818.0	990.8	993.8	999.8
102.5°	217.0	172.4	127.7	172.4	217.0	228.2	491.0	841.5	1016.7	1068.8	1172.9
105°	240.8	203.0	165.2	203.0	240.8	250.2	504.7	844.1	1013.8	1130.5	1364.1
107.5°	274.1	238.9	203.7	238.9	274.1	282.9	507.4	806.6	956.2	1119.0	1444.8
110°	293.2	261.3	229.5	261.3	293.2	301.1	503.5	773.2	908.1	1090.2	1454.4



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	315.7	285.4	255.0	285.4	315.7	323.2	503.7	744.2	864.5	1050.8	1423.5
115°	349.3	321.4	293.4	321.4	349.3	356.4	508.3	710.9	812.1	991.6	1350.7
117.5°	382.2	356.8	331.4	356.8	382.2	388.5	517.7	690.0	776.1	938.1	1262.1
120°	401.2	377.4	353.4	377.4	401.2	407.3	525.4	682.9	761.7	909.7	1205.7
122.5°	423.3	399.2	375.1	399.2	423.3	429.4	536.5	679.3	750.7	884.0	1150.5
125°	452.2	430.2	408.3	430.2	452.2	457.7	551.3	676.2	738.7	851.9	1078.3
127.5°	479.5	457.3	435.1	457.3	479.5	485.0	566.2	674.4	728.6	825.8	1020.2
130°	497.3	473.4	449.5	473.4	497.3	503.3	577.1	675.5	724.7	811.3	984.4
132.5°	512.2	488.3	464.4	488.3	512.2	518.2	585.9	676.2	721.3	798.8	953.8
135°	530.0	508.3	486.5	508.3	530.0	535.5	595.5	675.5	715.6	780.5	910.2
137.5°	552.2	530.6	509.0	530.6	552.2	557.6	609.9	679.8	714.6	769.5	879.2
140°	567.6	547.7	527.8	547.7	567.6	572.5	618.8	680.4	711.2	758.6	853.4
142.5°	578.9	560.6	542.2	560.6	578.9	583.5	626.1	682.8	711.2	752.9	836.1
145°	596.3	580.3	564.3	580.3	596.3	600.3	635.7	682.9	706.5	740.5	808.6
147.5°	617.5	602.0	586.4	602.0	617.5	621.5	649.8	687.6	706.5	733.3	786.8
150°	628.9	614.9	600.8	614.9	628.9	632.5	657.1	690.0	706.5	729.1	774.3
152.5°	637.0	626.4	615.7	626.4	637.0	639.7	662.0	691.6	706.5	725.8	764.5
155°	653.6	645.7	637.8	645.7	653.6	655.6	672.5	695.2	706.5	721.9	752.6
157.5°	669.4	661.8	654.1	661.8	669.4	671.4	683.1	698.7	706.5	718.4	742.3
160°	677.1	671.1	665.1	671.1	677.1	678.6	687.9	700.3	706.5	716.7	737.2
162.5°	685.1	680.7	676.2	680.7	685.1	686.3	693.0	702.0	706.5	715.1	732.4
165°	696.3	692.2	688.2	692.2	696.3	697.3	700.4	704.5	706.5	712.6	725.0
167.5°	703.1	701.2	699.2	701.2	703.1	703.5	706.1	709.6	711.2	715.3	723.4
170°	710.3	708.4	706.5	708.4	710.3	710.8	710.9	711.2	711.2	715.3	723.4
172.5°	711.2	710.7	710.3	710.7	711.2	711.2	711.2	711.2	711.2	714.5	720.9
175°	715.6	715.6	715.6	715.6	715.6	715.6	714.1	712.2	711.2	713.3	717.3
177.5°	715.6	715.6	715.6	715.6	715.6	715.6	714.5	713.0	712.2	713.9	717.0
180°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6



TEST NUMBER: P935922
 CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	785.5	783.2	786.2	777.8	786.2	783.2	785.5	790.9	786.2	789.3	792.4
5°	689.2	685.4	673.1	663.0	673.1	685.4	689.2	705.4	713.1	727.0	745.4
7.5°	616.1	613.0	609.9	603.8	609.9	613.0	616.1	620.7	628.4	640.7	654.6
10°	599.9	600.7	605.3	604.5	605.3	600.7	599.9	598.4	596.1	598.4	606.8
12.5°	641.5	648.4	673.8	672.3	673.8	648.4	641.5	610.7	589.9	586.0	587.6
15°	689.2	691.5	696.9	697.7	696.9	691.5	689.2	676.9	614.5	587.6	579.1
17.5°	693.8	694.6	698.5	698.5	698.5	694.6	693.8	688.5	667.7	631.5	583.7
20°	690.0	691.5	699.2	700.8	699.2	691.5	690.0	683.1	671.5	658.4	622.2
22.5°	688.5	691.5	697.7	696.9	697.7	691.5	688.5	677.7	667.7	658.4	643.8
25°	680.8	680.8	681.5	682.3	681.5	680.8	680.8	672.3	652.3	650.0	641.5
27.5°	664.6	666.1	670.7	670.0	670.7	666.1	664.6	661.5	639.9	637.6	631.5
30°	650.0	648.4	644.6	641.5	644.6	648.4	650.0	645.3	623.8	617.6	619.2
32.5°	625.3	621.5	617.6	615.3	617.6	621.5	625.3	623.8	607.6	599.1	600.7
35°	596.1	596.8	596.1	593.7	596.1	596.8	596.1	597.6	587.6	579.9	579.1
37.5°	575.3	576.8	576.0	573.0	576.0	576.8	575.3	573.7	559.9	557.6	559.1
40°	553.7	554.5	553.7	551.4	553.7	554.5	553.7	550.6	531.4	532.1	537.5
42.5°	532.9	532.1	529.8	528.3	529.8	532.1	532.9	528.3	503.7	501.3	511.4
45°	509.0	509.8	505.2	502.9	505.2	509.8	509.0	506.0	480.6	474.4	481.3
47.5°	485.2	485.2	481.3	479.0	481.3	485.2	485.2	481.3	454.4	448.2	452.1
50°	459.8	459.0	453.6	452.8	453.6	459.0	459.8	457.5	429.0	423.6	423.6
52.5°	430.5	430.5	431.3	432.8	431.3	430.5	430.5	431.3	405.9	400.5	398.9
55°	405.1	405.9	411.3	412.8	411.3	405.9	405.1	405.1	382.0	376.6	373.5
57.5°	378.9	378.9	382.8	382.8	382.8	378.9	378.9	377.4	355.0	350.4	348.9
60°	348.9	350.4	353.5	352.7	353.5	350.4	348.9	347.3	328.1	325.0	319.6
62.5°	317.3	318.9	319.6	318.1	319.6	318.9	317.3	312.7	301.1	298.8	291.9
65°	284.2	285.7	286.5	285.0	286.5	285.7	284.2	281.9	273.4	269.5	263.3
67.5°	250.2	249.5	248.7	251.8	248.7	249.5	250.2	247.2	241.8	238.7	230.2
70°	215.6	215.6	214.8	216.4	214.8	215.6	215.6	213.3	210.2	207.9	200.2
72.5°	178.6	177.9	181.0	178.6	181.0	177.9	178.6	177.9	176.3	174.0	166.3
75°	142.5	144.0	142.5	144.8	142.5	144.0	142.5	143.2	142.5	140.9	135.5
77.5°	108.6	110.1	108.6	108.6	108.6	110.1	108.6	109.3	109.3	109.3	104.7
80°	77.0	76.2	76.2	75.5	76.2	76.2	77.0	77.0	77.8	76.2	74.7
82.5°	49.3	48.5	48.5	50.1	48.5	48.5	49.3	50.1	48.5	48.5	48.5
85°	27.0	27.7	26.2	26.2	26.2	27.7	27.0	25.4	27.0	27.0	26.2
87.5°	10.0	9.2	9.2	9.2	9.2	9.2	10.0	10.8	10.8	10.8	11.6
90°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	24.3	32.4	36.5	31.4
92.5°	91.2	87.6	73.1	58.6	73.1	87.6	91.2	129.4	180.1	205.5	180.4
95°	309.8	298.8	254.8	210.8	254.8	298.8	309.8	406.8	536.2	600.8	507.4
97.5°	715.1	694.2	610.5	526.8	610.5	694.2	715.1	776.4	858.2	899.1	743.4
100°	1004.2	979.3	879.6	779.9	879.6	979.3	1004.2	999.8	993.8	990.8	818.0
102.5°	1251.1	1229.8	1144.4	1059.0	1144.4	1229.8	1251.1	1172.9	1068.8	1016.7	841.5
105°	1539.2	1527.8	1481.9	1436.0	1481.9	1527.8	1539.2	1364.1	1130.5	1013.8	844.1
107.5°	1689.1	1691.8	1702.9	1714.0	1702.9	1691.8	1689.1	1444.8	1119.0	956.2	806.6
110°	1727.5	1739.4	1787.2	1835.1	1787.2	1739.4	1727.5	1454.4	1090.2	908.1	773.2



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1703.0	1721.3	1794.8	1868.2	1794.8	1721.3	1703.0	1423.5	1050.8	864.5	744.2
115°	1619.9	1645.4	1747.2	1849.0	1747.2	1645.4	1619.9	1350.7	991.6	812.1	710.9
117.5°	1505.1	1533.4	1646.3	1759.1	1646.3	1533.4	1505.1	1262.1	938.1	776.1	690.0
120°	1427.8	1455.2	1564.9	1674.7	1564.9	1455.2	1427.8	1205.7	909.7	761.7	682.9
122.5°	1350.5	1377.5	1485.8	1594.0	1485.8	1377.5	1350.5	1150.5	884.0	750.7	679.3
125°	1248.2	1273.1	1372.8	1472.5	1372.8	1273.1	1248.2	1078.3	851.9	738.7	676.2
127.5°	1166.1	1187.1	1271.2	1355.3	1271.2	1187.1	1166.1	1020.2	825.8	728.6	674.4
130°	1114.2	1133.6	1211.3	1289.0	1211.3	1133.6	1114.2	984.4	811.3	724.7	675.5
132.5°	1070.0	1087.4	1156.9	1226.5	1156.9	1087.4	1070.0	953.8	798.8	721.3	676.2
135°	1007.5	1022.6	1082.5	1142.5	1082.5	1022.6	1007.5	910.2	780.5	715.6	675.5
137.5°	961.5	973.7	1022.9	1071.9	1022.9	973.7	961.5	879.2	769.5	714.6	679.8
140°	924.5	935.9	981.8	1027.7	981.8	935.9	924.5	853.4	758.6	711.2	680.4
142.5°	898.6	908.4	947.9	987.4	947.9	908.4	898.6	836.1	752.9	711.2	682.8
145°	859.6	867.1	897.0	926.9	897.0	867.1	859.6	808.6	740.5	706.5	682.9
147.5°	827.0	833.1	857.9	882.7	857.9	833.1	827.0	786.8	733.3	706.5	687.6
150°	808.3	813.3	833.4	853.4	833.4	813.3	808.3	774.3	729.1	706.5	690.0
152.5°	793.4	797.2	812.4	827.4	812.4	797.2	793.4	764.5	725.8	706.5	691.6
155°	775.6	778.2	788.2	798.2	788.2	778.2	775.6	752.6	721.9	706.5	695.2
157.5°	760.2	762.0	769.0	776.1	769.0	762.0	760.2	742.3	718.4	706.5	698.7
160°	752.5	753.5	757.6	761.7	757.6	753.5	752.5	737.2	716.7	706.5	700.3
162.5°	745.4	746.3	750.1	754.0	750.1	746.3	745.4	732.4	715.1	706.5	702.0
165°	734.3	735.3	739.4	743.4	739.4	735.3	734.3	725.0	712.6	706.5	704.5
167.5°	729.5	730.0	731.7	733.3	731.7	730.0	729.5	723.4	715.3	711.2	709.6
170°	729.5	729.5	729.5	729.5	729.5	729.5	729.5	723.4	715.3	711.2	711.2
172.5°	725.6	725.3	723.8	722.3	723.8	725.3	725.6	720.9	714.5	711.2	711.2
175°	720.4	720.4	720.4	720.4	720.4	720.4	720.4	717.3	713.3	711.2	712.2
177.5°	719.4	718.9	717.3	715.6	717.3	718.9	719.4	717.0	713.9	712.2	713.0
180°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	804.0	807.8	810.1	813.2	820.9
5°	773.2	787.8	792.4	804.0	817.8
7.5°	705.4	750.1	762.4	790.1	811.7
10°	639.9	684.6	706.2	771.6	804.0
12.5°	606.8	633.0	647.6	739.3	793.2
15°	586.0	604.5	615.3	696.2	780.9
17.5°	569.9	583.0	590.7	653.8	763.9
20°	559.9	566.0	573.0	623.0	744.7
22.5°	552.9	549.1	554.5	601.4	718.5
25°	548.3	533.7	539.8	584.5	687.7
27.5°	552.2	519.8	522.1	569.1	655.3
30°	552.9	502.9	503.7	552.9	619.2
32.5°	547.5	485.2	485.9	532.9	578.3
35°	534.5	464.4	463.6	509.8	522.9
37.5°	516.7	442.1	442.1	484.4	462.1
40°	495.2	419.7	422.0	451.3	408.2
42.5°	469.0	395.9	398.9	407.4	368.1
45°	440.5	372.8	375.1	344.3	337.3
47.5°	408.9	348.9	349.7	285.7	327.3
50°	371.2	324.2	321.2	244.9	326.6
52.5°	338.1	297.3	288.1	221.8	296.5
55°	305.8	268.7	248.7	204.0	275.0
57.5°	277.3	231.8	212.5	183.3	270.3
60°	251.0	195.6	181.0	160.9	247.9
62.5°	229.5	168.6	165.6	145.5	224.8
65°	206.4	150.2	149.4	132.4	191.0
67.5°	184.0	137.8	137.1	120.1	145.5
70°	160.2	124.7	123.2	107.0	107.8
72.5°	135.5	110.1	108.6	96.2	89.3
75°	110.9	93.2	92.4	83.9	72.4
77.5°	87.0	73.9	75.5	67.8	53.1
80°	62.4	53.9	55.4	48.5	40.0
82.5°	41.6	35.4	37.0	30.8	27.0
85°	23.1	20.0	20.8	16.2	12.3
87.5°	10.8	9.2	9.2	6.2	3.8
90°	21.2	13.5	12.5	8.6	4.8
92.5°	130.3	92.7	84.5	51.8	19.2
95°	320.6	180.6	165.6	105.9	46.1
97.5°	431.9	198.4	185.2	132.4	79.7
100°	472.4	213.2	201.3	153.5	105.6
102.5°	491.0	228.2	217.0	172.4	127.7
105°	504.7	250.2	240.8	203.0	165.2
107.5°	507.4	282.9	274.1	238.9	203.7
110°	503.5	301.1	293.2	261.3	229.5



TEST NUMBER: P935922

CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	503.7	323.2	315.7	285.4	255.0
115°	508.3	356.4	349.3	321.4	293.4
117.5°	517.7	388.5	382.2	356.8	331.4
120°	525.4	407.3	401.2	377.4	353.4
122.5°	536.5	429.4	423.3	399.2	375.1
125°	551.3	457.7	452.2	430.2	408.3
127.5°	566.2	485.0	479.5	457.3	435.1
130°	577.1	503.3	497.3	473.4	449.5
132.5°	585.9	518.2	512.2	488.3	464.4
135°	595.5	535.5	530.0	508.3	486.5
137.5°	609.9	557.6	552.2	530.6	509.0
140°	618.8	572.5	567.6	547.7	527.8
142.5°	626.1	583.5	578.9	560.6	542.2
145°	635.7	600.3	596.3	580.3	564.3
147.5°	649.8	621.5	617.5	602.0	586.4
150°	657.1	632.5	628.9	614.9	600.8
152.5°	662.0	639.7	637.0	626.4	615.7
155°	672.5	655.6	653.6	645.7	637.8
157.5°	683.1	671.4	669.4	661.8	654.1
160°	687.9	678.6	677.1	671.1	665.1
162.5°	693.0	686.3	685.1	680.7	676.2
165°	700.4	697.3	696.3	692.2	688.2
167.5°	706.1	703.5	703.1	701.2	699.2
170°	710.9	710.8	710.3	708.4	706.5
172.5°	711.2	711.2	711.2	710.7	710.3
175°	714.1	715.6	715.6	715.6	715.6
177.5°	714.5	715.6	715.6	715.6	715.6
180°	715.6	715.6	715.6	715.6	715.6



TEST NUMBER: P935922
 CATALOG NUMBER: SQ4-FA-150U-075D-927-1D-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	9.78	10.49	10.88	11.59	13.11	12.58	13.29	13.68	14.39	15.91
	3H	10.24	10.88	11.36	11.99	13.52	13.90	14.54	15.01	15.65	17.18
	4H	10.43	11.04	11.55	12.14	13.68	14.33	14.94	15.45	16.05	17.58
	6H	10.54	11.10	11.67	12.21	13.76	14.60	15.16	15.73	16.27	17.82
	8H	10.54	11.07	11.67	12.20	13.74	14.67	15.20	15.80	16.32	17.87
	12H	10.50	11.01	11.64	12.13	13.69	14.70	15.20	15.83	16.32	17.89
4H	2H	10.79	11.39	11.91	12.50	14.04	12.97	13.58	14.10	14.69	16.22
	3H	11.80	12.30	12.93	13.44	14.99	14.45	14.96	15.59	16.09	17.64
	4H	12.07	12.53	13.21	13.66	15.23	14.97	15.43	16.10	16.56	18.13
	6H	12.19	12.58	13.33	13.73	15.29	15.31	15.71	16.46	16.86	18.42
	8H	12.19	12.56	13.33	13.70	15.28	15.41	15.79	16.56	16.92	18.50
	12H	12.15	12.49	13.31	13.64	15.22	15.46	15.79	16.62	16.95	18.53
8H	4H	12.50	12.88	13.65	14.02	15.59	15.08	15.45	16.22	16.59	18.17
	6H	12.76	13.07	13.92	14.25	15.82	15.50	15.81	16.67	16.99	18.56
	8H	12.80	13.07	13.97	14.23	15.82	15.65	15.91	16.82	17.07	18.67
	12H	12.78	13.01	13.95	14.17	15.80	15.73	15.97	16.91	17.13	18.75
12H	4H	12.50	12.84	13.66	13.99	15.57	15.04	15.37	16.20	16.52	18.11
	6H	12.82	13.09	13.99	14.25	15.84	15.50	15.77	16.67	16.93	18.52
	8H	12.88	13.11	14.05	14.27	15.90	15.65	15.88	16.82	17.04	18.67