

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: P934707

Luminaire Tested: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934707
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

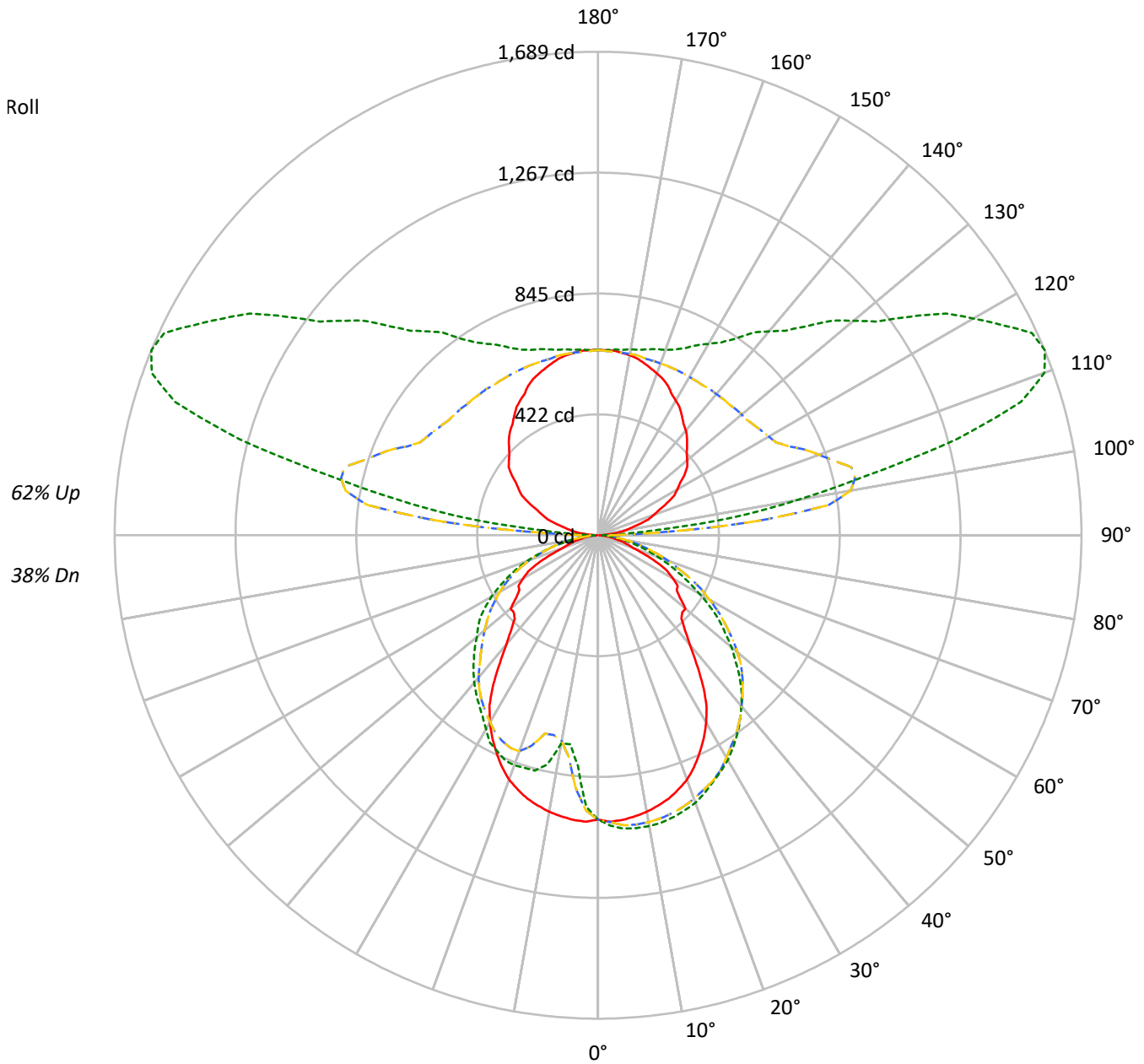
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6772.4 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P934707
CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



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



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

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°	6143	6143	6143	6143
5°	6187	6202	6187	4876
10°	6144	6109	6144	4368
15°	6075	5977	6075	4990
20°	5945	5820	5945	5001
25°	5683	5591	5683	4895
30°	5345	5401	5345	4663
35°	4763	5161	4763	4407
40°	3966	4879	3966	4214
45°	3541	4547	3541	3991
50°	3760	4153	3760	3769
55°	3533	3727	3533	3639
60°	3638	3166	3638	3333
65°	3293	2617	3293	2925
70°	2274	2085	2274	2452
75°	1989	1542	1989	1846
80°	1588	1018	1588	1110
85°	894	539	894	458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5432 cd/sqm



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	1.3
10°-20°	254.5	3.8
20°-30°	393.5	5.8
30°-40°	469.7	6.9
40°-50°	472.5	7.0
50°-60°	411.1	6.1
60°-70°	291.5	4.3
70°-80°	154.2	2.3
80°-90°	40.9	0.6
90°-100°	315.4	4.7
100°-110°	829.3	12.2
110°-120°	859.9	12.7
120°-130°	689.7	10.2
130°-140°	541.2	8.0
140°-150°	415.4	6.1
150°-160°	299.2	4.4
160°-170°	183.0	2.7
170°-180°	61.8	0.9
0°-30°	737.7	10.9
0°-40°	1207.4	17.8
0°-60°	2090.9	30.9
0°-90°	2577.5	38.1
90°-120°	2004.6	29.6
90°-150°	3650.9	53.9
90°-180°	4195.0	61.9
0°-180°	6772.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	993	993	993	993	993	
5°	998	1029	998	809	998	95
15°	953	1020	953	851	953	268
25°	839	951	839	832	839	385
35°	638	848	638	724	638	395
45°	412	699	412	614	412	330
55°	335	516	335	504	335	308
65°	233	311	233	348	233	223
75°	88	148	88	177	88	93
85°	15	38	15	32	15	20
90°	4	16	4	16	4	4
95°	42	191	42	191	42	46
105°	149	1298	149	1298	149	158
115°	265	1672	265	1672	265	262
125°	369	1332	369	1332	369	328
135°	440	1033	440	1033	440	340
145°	510	838	510	838	510	320
155°	577	722	577	722	577	265
165°	622	672	622	672	622	176
175°	647	652	647	652	647	61
180°	647	647	647	647	647	



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1001.6	1001.6	1007.2	1009.1	1009.1	1006.3	1003.5	1006.3	1014.8	1017.6	1016.7
5°	997.8	1005.4	1015.7	1017.6	1019.5	1018.5	1016.7	1018.5	1027.9	1029.8	1030.8
7.5°	990.3	1004.4	1017.6	1020.4	1023.2	1020.4	1019.5	1021.3	1030.8	1032.6	1032.6
10°	980.9	1000.7	1015.7	1017.6	1020.4	1017.6	1017.6	1021.3	1030.8	1032.6	1033.6
12.5°	967.8	995.0	1009.1	1011.0	1014.8	1013.9	1012.8	1016.7	1026.0	1027.9	1027.9
15°	952.8	984.7	997.8	999.8	1006.3	1004.4	1004.4	1008.2	1018.5	1021.3	1020.4
17.5°	932.0	971.5	986.6	989.4	994.1	993.1	994.1	997.8	1007.2	1009.1	1010.0
20°	908.6	953.7	971.5	974.3	979.0	979.0	979.0	983.8	993.1	996.9	996.9
22.5°	876.7	934.8	953.7	955.6	961.2	961.2	963.0	969.7	978.1	979.0	979.0
25°	839.0	914.2	930.2	935.9	941.5	944.3	947.1	950.9	953.7	952.8	953.7
27.5°	799.6	887.9	908.6	912.3	919.9	922.7	926.4	927.4	928.3	931.1	929.2
30°	755.4	851.2	882.3	886.0	898.2	900.1	896.4	898.2	902.9	904.9	906.7
32.5°	705.6	796.8	855.0	863.5	874.8	869.1	868.2	871.0	878.5	878.5	880.4
35°	638.0	754.5	829.7	837.1	845.6	839.0	842.8	843.8	848.4	851.2	850.3
37.5°	563.8	717.9	803.3	808.9	815.6	807.1	812.8	815.6	819.3	817.4	817.4
40°	498.0	660.5	772.3	776.1	781.8	775.1	780.8	782.7	784.6	782.7	781.8
42.5°	449.2	597.6	739.4	744.1	740.4	745.1	747.0	750.7	747.9	744.1	744.1
45°	411.5	580.7	703.8	709.4	703.8	711.2	714.0	714.0	705.6	703.8	702.8
47.5°	399.3	546.9	668.1	668.1	665.2	674.6	679.3	672.8	664.3	661.5	661.5
50°	398.4	509.2	619.1	615.4	628.6	639.9	635.1	628.6	622.0	611.7	611.7
52.5°	361.7	463.2	556.2	570.3	591.0	597.6	590.1	583.5	572.2	567.5	563.8
55°	335.4	415.3	498.9	527.1	548.7	557.1	543.1	536.5	519.6	516.8	514.9
57.5°	329.8	345.8	446.3	482.0	508.3	507.3	498.9	486.7	472.6	469.8	468.9
60°	302.5	249.9	389.9	432.3	459.4	456.6	449.2	437.9	424.7	422.8	421.0
62.5°	274.3	181.4	326.1	374.0	412.5	411.5	405.0	388.1	378.6	374.0	370.2
65°	233.0	152.2	232.1	311.0	366.4	368.3	354.3	342.0	331.7	326.1	325.1
67.5°	177.6	124.0	156.9	259.4	322.3	320.4	302.5	296.9	283.7	280.9	275.3
70°	131.5	82.7	109.0	210.4	279.1	274.3	260.3	253.7	241.4	234.9	231.2
72.5°	109.0	66.7	79.9	163.5	234.9	229.3	217.1	209.5	199.2	193.5	189.8
75°	88.4	70.4	61.1	121.2	190.7	187.0	175.7	168.2	159.7	152.2	153.2
77.5°	64.8	65.8	48.8	89.3	151.3	145.6	139.1	129.6	125.9	118.4	118.4
80°	48.8	51.7	36.6	61.1	109.0	109.0	103.4	96.8	90.2	86.5	86.5
82.5°	32.9	32.9	27.3	38.5	74.3	71.5	67.6	65.8	62.0	60.1	60.1
85°	15.0	18.8	16.9	23.4	40.4	42.3	42.3	40.4	39.5	37.5	38.5
87.5°	4.7	8.5	10.4	13.2	20.6	21.6	22.5	22.5	22.5	23.4	23.4
90°	4.3	7.8	11.3	12.1	19.1	28.3	33.0	29.3	22.0	16.5	16.5
92.5°	17.4	46.9	76.4	83.8	117.8	163.2	185.9	162.9	116.9	82.5	79.2
95°	41.7	95.7	149.7	163.3	289.9	458.9	543.3	484.8	367.8	280.1	270.2
97.5°	72.1	119.7	167.4	179.3	390.6	672.2	813.0	776.1	702.2	646.7	627.7
100°	95.5	138.8	182.0	192.9	427.2	739.7	896.0	898.7	904.1	908.1	885.6
102.5°	115.5	155.9	196.2	206.3	444.0	760.9	919.4	966.5	1060.7	1131.4	1112.0
105°	149.4	183.6	217.8	226.3	456.4	763.4	916.8	1022.4	1233.5	1391.9	1381.6
107.5°	184.2	216.0	247.9	255.8	458.8	729.4	864.7	1012.0	1306.6	1527.5	1530.0
110°	207.6	236.4	265.1	272.3	455.2	699.3	821.3	985.9	1315.3	1562.2	1573.0



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.6	258.0	285.4	292.2	455.4	672.9	781.8	950.3	1287.2	1540.0	1556.6
115°	265.3	290.7	315.9	322.2	459.6	642.8	734.4	896.7	1221.4	1464.9	1487.9
117.5°	299.6	322.6	345.6	351.4	468.2	623.9	701.8	848.4	1141.3	1361.1	1386.6
120°	319.6	341.3	362.9	368.3	475.1	617.6	688.8	822.7	1090.4	1291.2	1316.0
122.5°	339.2	361.0	382.8	388.3	485.1	614.3	678.8	799.3	1040.4	1221.2	1245.7
125°	369.1	389.0	408.9	413.9	498.6	611.5	668.0	770.4	975.2	1128.7	1151.2
127.5°	393.5	413.6	433.6	438.6	512.0	609.9	658.8	746.7	922.6	1054.5	1073.5
130°	406.5	428.1	449.7	455.1	521.9	610.9	655.4	733.7	890.2	1007.6	1025.2
132.5°	419.9	441.6	463.2	468.6	529.9	611.5	652.3	722.4	862.5	967.6	983.3
135°	439.9	459.6	479.3	484.3	538.5	610.9	647.1	705.7	823.1	911.1	924.7
137.5°	460.4	479.8	499.3	504.2	551.5	614.7	646.2	695.8	795.0	869.5	880.6
140°	477.3	495.2	513.2	517.7	559.6	615.3	643.2	686.0	771.8	836.0	846.4
142.5°	490.4	507.0	523.6	527.7	566.2	617.5	643.2	680.8	756.1	812.6	821.5
145°	510.3	524.8	539.2	542.8	574.9	617.6	638.9	669.7	731.2	777.4	784.1
147.5°	530.2	544.3	558.4	562.0	587.6	621.8	638.9	663.0	711.5	747.9	753.5
150°	543.3	556.0	568.8	572.0	594.3	624.0	638.9	659.3	700.2	730.9	735.5
152.5°	556.8	566.5	576.1	578.5	598.6	625.4	638.9	656.3	691.3	717.5	721.0
155°	576.7	583.8	591.0	592.8	608.1	628.6	638.9	652.8	680.6	701.4	703.7
157.5°	591.5	598.5	605.4	607.2	617.7	631.9	638.9	649.7	671.3	687.5	689.1
160°	601.5	606.9	612.3	613.6	622.0	633.3	638.9	648.1	666.6	680.5	681.4
162.5°	611.5	615.6	619.6	620.6	626.7	634.8	638.9	646.7	662.3	674.1	674.9
165°	622.3	626.1	629.7	630.6	633.3	637.0	638.9	644.5	655.7	664.1	665.0
167.5°	632.3	634.1	635.8	636.2	638.6	641.7	643.2	646.8	654.2	659.7	660.1
170°	638.9	640.6	642.3	642.8	642.9	643.1	643.2	646.8	654.2	659.7	659.7
172.5°	642.3	642.7	643.1	643.2	643.2	643.2	643.2	646.0	651.8	656.2	655.9
175°	647.1	647.1	647.1	647.1	645.8	644.0	643.2	645.0	648.7	651.5	651.5
177.5°	647.1	647.1	647.1	647.1	646.0	644.7	644.1	645.6	648.5	650.6	650.3
180°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1018.5	1015.7	1018.5	1016.7	1017.6	1014.8	1006.3	1003.5	1006.3	1009.1	1009.1
5°	1030.8	1028.8	1030.8	1030.8	1029.8	1027.9	1018.5	1016.7	1018.5	1019.5	1017.6
7.5°	1034.5	1031.7	1034.5	1032.6	1032.6	1030.8	1021.3	1019.5	1020.4	1023.2	1020.4
10°	1034.5	1031.7	1034.5	1033.6	1032.6	1030.8	1021.3	1017.6	1017.6	1020.4	1017.6
12.5°	1029.8	1027.9	1029.8	1027.9	1027.9	1026.0	1016.7	1012.8	1013.9	1014.8	1011.0
15°	1022.3	1019.5	1022.3	1020.4	1021.3	1018.5	1008.2	1004.4	1004.4	1006.3	999.8
17.5°	1011.0	1007.2	1011.0	1010.0	1009.1	1007.2	997.8	994.1	993.1	994.1	989.4
20°	997.8	995.0	997.8	996.9	996.9	993.1	983.8	979.0	979.0	979.0	974.3
22.5°	977.2	974.3	977.2	979.0	979.0	978.1	969.7	963.0	961.2	961.2	955.6
25°	953.7	950.9	953.7	953.7	952.8	953.7	950.9	947.1	944.3	941.5	935.9
27.5°	931.1	929.2	931.1	929.2	931.1	928.3	927.4	926.4	922.7	919.9	912.3
30°	908.6	906.7	908.6	906.7	904.9	902.9	898.2	896.4	900.1	898.2	886.0
32.5°	880.4	878.5	880.4	880.4	878.5	878.5	871.0	868.2	869.1	874.8	863.5
35°	851.2	848.4	851.2	850.3	851.2	848.4	843.8	842.8	839.0	845.6	837.1
37.5°	817.4	814.6	817.4	817.4	817.4	819.3	815.6	812.8	807.1	815.6	808.9
40°	782.7	779.0	782.7	781.8	782.7	784.6	782.7	780.8	775.1	781.8	776.1
42.5°	743.2	742.2	743.2	744.1	744.1	747.9	750.7	747.0	745.1	740.4	744.1
45°	701.0	699.0	701.0	702.8	703.8	705.6	714.0	714.0	711.2	703.8	709.4
47.5°	655.9	651.1	655.9	661.5	661.5	664.3	672.8	679.3	674.6	665.2	668.1
50°	607.9	608.9	607.9	611.7	611.7	622.0	628.6	635.1	639.9	628.6	615.4
52.5°	561.0	560.0	561.0	563.8	567.5	572.2	583.5	590.1	597.6	591.0	570.3
55°	514.0	515.8	514.0	514.9	516.8	519.6	536.5	543.1	557.1	548.7	527.1
57.5°	467.0	464.2	467.0	468.9	469.8	472.6	486.7	498.9	507.3	508.3	482.0
60°	412.5	408.7	412.5	421.0	422.8	424.7	437.9	449.2	456.6	459.4	432.3
62.5°	364.5	358.0	364.5	370.2	374.0	378.6	388.1	405.0	411.5	412.5	374.0
65°	313.8	311.0	313.8	325.1	326.1	331.7	342.0	354.3	368.3	366.4	311.0
67.5°	267.8	267.8	267.8	275.3	280.9	283.7	296.9	302.5	320.4	322.3	259.4
70°	225.5	224.5	225.5	231.2	234.9	241.4	253.7	260.3	274.3	279.1	210.4
72.5°	185.1	184.2	185.1	189.8	193.5	199.2	209.5	217.1	229.3	234.9	163.5
75°	149.4	147.5	149.4	153.2	152.2	159.7	168.2	175.7	187.0	190.7	121.2
77.5°	114.6	114.6	114.6	118.4	118.4	125.9	129.6	139.1	145.6	151.3	89.3
80°	85.5	84.5	85.5	86.5	86.5	90.2	96.8	103.4	109.0	109.0	61.1
82.5°	60.1	58.3	60.1	60.1	60.1	62.0	65.8	67.6	71.5	74.3	38.5
85°	37.5	37.5	37.5	38.5	37.5	39.5	40.4	42.3	42.3	40.4	23.4
87.5°	24.5	23.4	24.5	23.4	23.4	22.5	22.5	22.5	21.6	20.6	13.2
90°	16.5	16.5	16.5	16.5	16.5	22.0	29.3	33.0	28.3	19.1	12.1
92.5°	66.0	53.0	66.0	79.2	82.5	116.9	162.9	185.9	163.2	117.8	83.8
95°	230.4	190.6	230.4	270.2	280.1	367.8	484.8	543.3	458.9	289.9	163.3
97.5°	552.1	476.4	552.1	627.7	646.7	702.2	776.1	813.0	672.2	390.6	179.3
100°	795.4	705.3	795.4	885.6	908.1	904.1	898.7	896.0	739.7	427.2	192.9
102.5°	1034.9	957.6	1034.9	1112.0	1131.4	1060.7	966.5	919.4	760.9	444.0	206.3
105°	1340.0	1298.5	1340.0	1381.6	1391.9	1233.5	1022.4	916.8	763.4	456.4	226.3
107.5°	1540.0	1550.0	1540.0	1530.0	1527.5	1306.6	1012.0	864.7	729.4	458.8	255.8
110°	1616.2	1659.4	1616.2	1573.0	1562.2	1315.3	985.9	821.3	699.3	455.2	272.3



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1623.0	1689.4	1623.0	1556.6	1540.0	1287.2	950.3	781.8	672.9	455.4	292.2
115°	1580.0	1672.0	1580.0	1487.9	1464.9	1221.4	896.7	734.4	642.8	459.6	322.2
117.5°	1488.7	1590.8	1488.7	1386.6	1361.1	1141.3	848.4	701.8	623.9	468.2	351.4
120°	1415.2	1514.4	1415.2	1316.0	1291.2	1090.4	822.7	688.8	617.6	475.1	368.3
122.5°	1343.6	1441.4	1343.6	1245.7	1221.2	1040.4	799.3	678.8	614.3	485.1	388.3
125°	1241.5	1331.6	1241.5	1151.2	1128.7	975.2	770.4	668.0	611.5	498.6	413.9
127.5°	1149.6	1225.6	1149.6	1073.5	1054.5	922.6	746.7	658.8	609.9	512.0	438.6
130°	1095.4	1165.6	1095.4	1025.2	1007.6	890.2	733.7	655.4	610.9	521.9	455.1
132.5°	1046.3	1109.2	1046.3	983.3	967.6	862.5	722.4	652.3	611.5	529.9	468.6
135°	978.9	1033.2	978.9	924.7	911.1	823.1	705.7	647.1	610.9	538.5	484.3
137.5°	924.9	969.4	924.9	880.6	869.5	795.0	695.8	646.2	614.7	551.5	504.2
140°	888.0	929.4	888.0	846.4	836.0	771.8	686.0	643.2	615.3	559.6	517.7
142.5°	857.2	892.9	857.2	821.5	812.6	756.1	680.8	643.2	617.5	566.2	527.7
145°	811.2	838.2	811.2	784.1	777.4	731.2	669.7	638.9	617.6	574.9	542.8
147.5°	775.8	798.2	775.8	753.5	747.9	711.5	663.0	638.9	621.8	587.6	562.0
150°	753.6	771.8	753.6	735.5	730.9	700.2	659.3	638.9	624.0	594.3	572.0
152.5°	734.6	748.3	734.6	721.0	717.5	691.3	656.3	638.9	625.4	598.6	578.5
155°	712.7	721.8	712.7	703.7	701.4	680.6	652.8	638.9	628.6	608.1	592.8
157.5°	695.5	701.8	695.5	689.1	687.5	671.3	649.7	638.9	631.9	617.7	607.2
160°	685.1	688.8	685.1	681.4	680.5	666.6	648.1	638.9	633.3	622.0	613.6
162.5°	678.4	681.8	678.4	674.9	674.1	662.3	646.7	638.9	634.8	626.7	620.6
165°	668.7	672.3	668.7	665.0	664.1	655.7	644.5	638.9	637.0	633.3	630.6
167.5°	661.6	663.1	661.6	660.1	659.7	654.2	646.8	643.2	641.7	638.6	636.2
170°	659.7	659.7	659.7	659.7	659.7	654.2	646.8	643.2	643.1	642.9	642.8
172.5°	654.5	653.1	654.5	655.9	656.2	651.8	646.0	643.2	643.2	643.2	643.2
175°	651.5	651.5	651.5	651.5	651.5	648.7	645.0	643.2	644.0	645.8	647.1
177.5°	648.7	647.1	648.7	650.3	650.6	648.5	645.6	644.1	644.7	646.0	647.1
180°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1007.2	1001.6	1001.6	992.2	988.5	985.7	980.9	966.9	963.0	959.3	964.9
5°	1015.7	1005.4	997.8	980.9	966.9	961.2	943.3	909.5	886.9	870.0	860.7
7.5°	1017.6	1004.4	990.3	964.0	930.2	915.1	860.7	798.7	781.8	766.7	757.3
10°	1015.7	1000.7	980.9	941.5	861.6	835.3	780.8	740.4	730.0	727.2	730.0
12.5°	1009.1	995.0	967.8	902.0	790.2	772.3	740.4	716.9	715.0	719.7	745.1
15°	997.8	984.7	952.8	849.4	750.7	737.6	715.0	706.6	716.9	749.8	825.9
17.5°	986.6	971.5	932.0	797.7	720.7	711.2	695.3	712.2	770.5	814.6	839.9
20°	971.5	953.7	908.6	760.1	699.0	690.6	683.0	759.2	803.3	819.3	833.4
22.5°	953.7	934.8	876.7	733.8	676.5	670.0	674.6	785.5	803.3	814.6	826.9
25°	930.2	914.2	839.0	713.1	658.7	651.1	669.0	782.7	793.0	795.9	820.2
27.5°	908.6	887.9	799.6	694.3	637.1	634.2	673.7	770.5	778.0	780.8	807.1
30°	882.3	851.2	755.4	674.6	614.5	613.5	674.6	755.4	753.6	761.0	787.4
32.5°	855.0	796.8	705.6	650.2	592.9	592.0	668.1	732.9	731.0	741.3	761.0
35°	829.7	754.5	638.0	622.0	565.6	566.6	652.0	706.6	707.5	716.9	729.1
37.5°	803.3	717.9	563.8	591.0	539.3	539.3	630.4	682.1	680.2	683.0	700.0
40°	772.3	660.5	498.0	550.6	514.9	512.1	604.1	655.9	649.2	648.3	671.8
42.5°	739.4	597.6	449.2	497.1	486.7	483.0	572.2	623.9	611.7	614.5	644.6
45°	703.8	580.7	411.5	420.0	457.6	454.8	537.4	587.2	578.8	586.3	617.3
47.5°	668.1	546.9	399.3	348.6	426.6	425.6	498.9	551.5	546.9	554.3	587.2
50°	619.1	509.2	398.4	298.8	391.8	395.5	452.9	516.8	516.8	523.3	558.2
52.5°	556.2	463.2	361.7	270.6	351.4	362.7	412.5	486.7	488.6	495.2	526.1
55°	498.9	415.3	335.4	249.0	303.5	327.9	373.0	455.7	459.4	466.1	494.2
57.5°	446.3	345.8	329.8	223.6	259.4	282.8	338.3	425.6	427.5	433.2	460.4
60°	389.9	249.9	302.5	196.3	220.8	238.6	306.3	389.9	396.5	400.2	423.8
62.5°	326.1	181.4	274.3	177.6	202.0	205.8	280.0	356.1	364.5	367.3	381.4
65°	232.1	152.2	233.0	161.6	182.3	183.3	251.8	321.3	328.9	333.5	343.9
67.5°	156.9	124.0	177.6	146.5	167.3	168.2	224.5	280.9	291.3	295.1	301.6
70°	109.0	82.7	131.5	130.6	150.4	152.2	195.4	244.3	253.7	256.5	260.3
72.5°	79.9	66.7	109.0	117.4	132.4	134.4	165.4	203.0	212.4	215.2	217.1
75°	61.1	70.4	88.4	102.5	112.7	113.7	135.3	165.4	171.9	173.8	174.8
77.5°	48.8	65.8	64.8	82.7	92.1	90.2	106.2	127.8	133.4	133.4	133.4
80°	36.6	51.7	48.8	59.2	67.6	65.8	76.1	91.2	93.0	94.9	94.0
82.5°	27.3	32.9	32.9	37.5	45.1	43.2	50.7	59.2	59.2	59.2	61.1
85°	16.9	18.8	15.0	19.7	25.4	24.5	28.2	31.9	32.9	32.9	31.0
87.5°	10.4	8.5	4.7	7.5	11.3	11.3	13.2	14.1	13.2	13.2	13.2
90°	11.3	7.8	4.3	7.8	11.3	12.1	19.1	28.3	33.0	29.3	22.0
92.5°	76.4	46.9	17.4	46.9	76.4	83.8	117.8	163.2	185.9	162.9	116.9
95°	149.7	95.7	41.7	95.7	149.7	163.3	289.9	458.9	543.3	484.8	367.8
97.5°	167.4	119.7	72.1	119.7	167.4	179.3	390.6	672.2	813.0	776.1	702.2
100°	182.0	138.8	95.5	138.8	182.0	192.9	427.2	739.7	896.0	898.7	904.1
102.5°	196.2	155.9	115.5	155.9	196.2	206.3	444.0	760.9	919.4	966.5	1060.7
105°	217.8	183.6	149.4	183.6	217.8	226.3	456.4	763.4	916.8	1022.4	1233.5
107.5°	247.9	216.0	184.2	216.0	247.9	255.8	458.8	729.4	864.7	1012.0	1306.6
110°	265.1	236.4	207.6	236.4	265.1	272.3	455.2	699.3	821.3	985.9	1315.3



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	285.4	258.0	230.6	258.0	285.4	292.2	455.4	672.9	781.8	950.3	1287.2
115°	315.9	290.7	265.3	290.7	315.9	322.2	459.6	642.8	734.4	896.7	1221.4
117.5°	345.6	322.6	299.6	322.6	345.6	351.4	468.2	623.9	701.8	848.4	1141.3
120°	362.9	341.3	319.6	341.3	362.9	368.3	475.1	617.6	688.8	822.7	1090.4
122.5°	382.8	361.0	339.2	361.0	382.8	388.3	485.1	614.3	678.8	799.3	1040.4
125°	408.9	389.0	369.1	389.0	408.9	413.9	498.6	611.5	668.0	770.4	975.2
127.5°	433.6	413.6	393.5	413.6	433.6	438.6	512.0	609.9	658.8	746.7	922.6
130°	449.7	428.1	406.5	428.1	449.7	455.1	521.9	610.9	655.4	733.7	890.2
132.5°	463.2	441.6	419.9	441.6	463.2	468.6	529.9	611.5	652.3	722.4	862.5
135°	479.3	459.6	439.9	459.6	479.3	484.3	538.5	610.9	647.1	705.7	823.1
137.5°	499.3	479.8	460.4	479.8	499.3	504.2	551.5	614.7	646.2	695.8	795.0
140°	513.2	495.2	477.3	495.2	513.2	517.7	559.6	615.3	643.2	686.0	771.8
142.5°	523.6	507.0	490.4	507.0	523.6	527.7	566.2	617.5	643.2	680.8	756.1
145°	539.2	524.8	510.3	524.8	539.2	542.8	574.9	617.6	638.9	669.7	731.2
147.5°	558.4	544.3	530.2	544.3	558.4	562.0	587.6	621.8	638.9	663.0	711.5
150°	568.8	556.0	543.3	556.0	568.8	572.0	594.3	624.0	638.9	659.3	700.2
152.5°	576.1	566.5	556.8	566.5	576.1	578.5	598.6	625.4	638.9	656.3	691.3
155°	591.0	583.8	576.7	583.8	591.0	592.8	608.1	628.6	638.9	652.8	680.6
157.5°	605.4	598.5	591.5	598.5	605.4	607.2	617.7	631.9	638.9	649.7	671.3
160°	612.3	606.9	601.5	606.9	612.3	613.6	622.0	633.3	638.9	648.1	666.6
162.5°	619.6	615.6	611.5	615.6	619.6	620.6	626.7	634.8	638.9	646.7	662.3
165°	629.7	626.1	622.3	626.1	629.7	630.6	633.3	637.0	638.9	644.5	655.7
167.5°	635.8	634.1	632.3	634.1	635.8	636.2	638.6	641.7	643.2	646.8	654.2
170°	642.3	640.6	638.9	640.6	642.3	642.8	642.9	643.1	643.2	646.8	654.2
172.5°	643.1	642.7	642.3	642.7	643.1	643.2	643.2	643.2	643.2	646.0	651.8
175°	647.1	647.1	647.1	647.1	647.1	647.1	645.8	644.0	643.2	645.0	648.7
177.5°	647.1	647.1	647.1	647.1	647.1	647.1	646.0	644.7	644.1	645.6	648.5
180°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	958.4	955.6	959.3	948.9	959.3	955.6	958.4	964.9	959.3	963.0	966.9
5°	841.0	836.2	821.2	808.9	821.2	836.2	841.0	860.7	870.0	886.9	909.5
7.5°	751.7	747.9	744.1	736.6	744.1	747.9	751.7	757.3	766.7	781.8	798.7
10°	732.0	732.9	738.5	737.6	738.5	732.9	732.0	730.0	727.2	730.0	740.4
12.5°	782.7	791.1	822.1	820.2	822.1	791.1	782.7	745.1	719.7	715.0	716.9
15°	841.0	843.8	850.3	851.2	850.3	843.8	841.0	825.9	749.8	716.9	706.6
17.5°	846.6	847.5	852.2	852.2	852.2	847.5	846.6	839.9	814.6	770.5	712.2
20°	841.9	843.8	853.1	855.0	853.1	843.8	841.9	833.4	819.3	803.3	759.2
22.5°	839.9	843.8	851.2	850.3	851.2	843.8	839.9	826.9	814.6	803.3	785.5
25°	830.6	830.6	831.5	832.5	831.5	830.6	830.6	820.2	795.9	793.0	782.7
27.5°	810.9	812.8	818.4	817.4	818.4	812.8	810.9	807.1	780.8	778.0	770.5
30°	793.0	791.1	786.4	782.7	786.4	791.1	793.0	787.4	761.0	753.6	755.4
32.5°	763.0	758.2	753.6	750.7	753.6	758.2	763.0	761.0	741.3	731.0	732.9
35°	727.2	728.1	727.2	724.4	727.2	728.1	727.2	729.1	716.9	707.5	706.6
37.5°	701.9	703.8	702.8	699.0	702.8	703.8	701.9	700.0	683.0	680.2	682.1
40°	675.6	676.5	675.6	672.8	675.6	676.5	675.6	671.8	648.3	649.2	655.9
42.5°	650.2	649.2	646.4	644.6	646.4	649.2	650.2	644.6	614.5	611.7	623.9
45°	621.1	622.0	616.3	613.5	616.3	622.0	621.1	617.3	586.3	578.8	587.2
47.5°	592.0	592.0	587.2	584.4	587.2	592.0	592.0	587.2	554.3	546.9	551.5
50°	561.0	560.0	553.4	552.5	553.4	560.0	561.0	558.2	523.3	516.8	516.8
52.5°	525.2	525.2	526.1	528.1	526.1	525.2	525.2	526.1	495.2	488.6	486.7
55°	494.2	495.2	501.7	503.6	501.7	495.2	494.2	494.2	466.1	459.4	455.7
57.5°	462.2	462.2	467.0	467.0	467.0	462.2	462.2	460.4	433.2	427.5	425.6
60°	425.6	427.5	431.2	430.3	431.2	427.5	425.6	423.8	400.2	396.5	389.9
62.5°	387.1	389.0	389.9	388.1	389.9	389.0	387.1	381.4	367.3	364.5	356.1
65°	346.7	348.6	349.5	347.6	349.5	348.6	346.7	343.9	333.5	328.9	321.3
67.5°	305.3	304.4	303.5	307.3	303.5	304.4	305.3	301.6	295.1	291.3	280.9
70°	263.1	263.1	262.2	264.0	262.2	263.1	263.1	260.3	256.5	253.7	244.3
72.5°	218.0	217.1	220.8	218.0	220.8	217.1	218.0	217.1	215.2	212.4	203.0
75°	173.8	175.7	173.8	176.6	173.8	175.7	173.8	174.8	173.8	171.9	165.4
77.5°	132.4	134.4	132.4	132.4	132.4	134.4	132.4	133.4	133.4	133.4	127.8
80°	94.0	93.0	93.0	92.1	93.0	93.0	94.0	94.0	94.9	93.0	91.2
82.5°	60.1	59.2	59.2	61.1	59.2	59.2	60.1	61.1	59.2	59.2	59.2
85°	32.9	33.8	31.9	31.9	31.9	33.8	32.9	31.0	32.9	32.9	31.9
87.5°	12.2	11.3	11.3	11.3	11.3	11.3	12.2	13.2	13.2	13.2	14.1
90°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	22.0	29.3	33.0	28.3
92.5°	82.5	79.2	66.0	53.0	66.0	79.2	82.5	116.9	162.9	185.9	163.2
95°	280.1	270.2	230.4	190.6	230.4	270.2	280.1	367.8	484.8	543.3	458.9
97.5°	646.7	627.7	552.1	476.4	552.1	627.7	646.7	702.2	776.1	813.0	672.2
100°	908.1	885.6	795.4	705.3	795.4	885.6	908.1	904.1	898.7	896.0	739.7
102.5°	1131.4	1112.0	1034.9	957.6	1034.9	1112.0	1131.4	1060.7	966.5	919.4	760.9
105°	1391.9	1381.6	1340.0	1298.5	1340.0	1381.6	1391.9	1233.5	1022.4	916.8	763.4
107.5°	1527.5	1530.0	1540.0	1550.0	1540.0	1530.0	1527.5	1306.6	1012.0	864.7	729.4
110°	1562.2	1573.0	1616.2	1659.4	1616.2	1573.0	1562.2	1315.3	985.9	821.3	699.3



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1540.0	1556.6	1623.0	1689.4	1623.0	1556.6	1540.0	1287.2	950.3	781.8	672.9
115°	1464.9	1487.9	1580.0	1672.0	1580.0	1487.9	1464.9	1221.4	896.7	734.4	642.8
117.5°	1361.1	1386.6	1488.7	1590.8	1488.7	1386.6	1361.1	1141.3	848.4	701.8	623.9
120°	1291.2	1316.0	1415.2	1514.4	1415.2	1316.0	1291.2	1090.4	822.7	688.8	617.6
122.5°	1221.2	1245.7	1343.6	1441.4	1343.6	1245.7	1221.2	1040.4	799.3	678.8	614.3
125°	1128.7	1151.2	1241.5	1331.6	1241.5	1151.2	1128.7	975.2	770.4	668.0	611.5
127.5°	1054.5	1073.5	1149.6	1225.6	1149.6	1073.5	1054.5	922.6	746.7	658.8	609.9
130°	1007.6	1025.2	1095.4	1165.6	1095.4	1025.2	1007.6	890.2	733.7	655.4	610.9
132.5°	967.6	983.3	1046.3	1109.2	1046.3	983.3	967.6	862.5	722.4	652.3	611.5
135°	911.1	924.7	978.9	1033.2	978.9	924.7	911.1	823.1	705.7	647.1	610.9
137.5°	869.5	880.6	924.9	969.4	924.9	880.6	869.5	795.0	695.8	646.2	614.7
140°	836.0	846.4	888.0	929.4	888.0	846.4	836.0	771.8	686.0	643.2	615.3
142.5°	812.6	821.5	857.2	892.9	857.2	821.5	812.6	756.1	680.8	643.2	617.5
145°	777.4	784.1	811.2	838.2	811.2	784.1	777.4	731.2	669.7	638.9	617.6
147.5°	747.9	753.5	775.8	798.2	775.8	753.5	747.9	711.5	663.0	638.9	621.8
150°	730.9	735.5	753.6	771.8	753.6	735.5	730.9	700.2	659.3	638.9	624.0
152.5°	717.5	721.0	734.6	748.3	734.6	721.0	717.5	691.3	656.3	638.9	625.4
155°	701.4	703.7	712.7	721.8	712.7	703.7	701.4	680.6	652.8	638.9	628.6
157.5°	687.5	689.1	695.5	701.8	695.5	689.1	687.5	671.3	649.7	638.9	631.9
160°	680.5	681.4	685.1	688.8	685.1	681.4	680.5	666.6	648.1	638.9	633.3
162.5°	674.1	674.9	678.4	681.8	678.4	674.9	674.1	662.3	646.7	638.9	634.8
165°	664.1	665.0	668.7	672.3	668.7	665.0	664.1	655.7	644.5	638.9	637.0
167.5°	659.7	660.1	661.6	663.1	661.6	660.1	659.7	654.2	646.8	643.2	641.7
170°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	654.2	646.8	643.2	643.1
172.5°	656.2	655.9	654.5	653.1	654.5	655.9	656.2	651.8	646.0	643.2	643.2
175°	651.5	651.5	651.5	651.5	651.5	651.5	651.5	648.7	645.0	643.2	644.0
177.5°	650.6	650.3	648.7	647.1	648.7	650.3	650.6	648.5	645.6	644.1	644.7
180°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	993.1	993.1	993.1	993.1	993.1
2.5°	980.9	985.7	988.5	992.2	1001.6
5°	943.3	961.2	966.9	980.9	997.8
7.5°	860.7	915.1	930.2	964.0	990.3
10°	780.8	835.3	861.6	941.5	980.9
12.5°	740.4	772.3	790.2	902.0	967.8
15°	715.0	737.6	750.7	849.4	952.8
17.5°	695.3	711.2	720.7	797.7	932.0
20°	683.0	690.6	699.0	760.1	908.6
22.5°	674.6	670.0	676.5	733.8	876.7
25°	669.0	651.1	658.7	713.1	839.0
27.5°	673.7	634.2	637.1	694.3	799.6
30°	674.6	613.5	614.5	674.6	755.4
32.5°	668.1	592.0	592.9	650.2	705.6
35°	652.0	566.6	565.6	622.0	638.0
37.5°	630.4	539.3	539.3	591.0	563.8
40°	604.1	512.1	514.9	550.6	498.0
42.5°	572.2	483.0	486.7	497.1	449.2
45°	537.4	454.8	457.6	420.0	411.5
47.5°	498.9	425.6	426.6	348.6	399.3
50°	452.9	395.5	391.8	298.8	398.4
52.5°	412.5	362.7	351.4	270.6	361.7
55°	373.0	327.9	303.5	249.0	335.4
57.5°	338.3	282.8	259.4	223.6	329.8
60°	306.3	238.6	220.8	196.3	302.5
62.5°	280.0	205.8	202.0	177.6	274.3
65°	251.8	183.3	182.3	161.6	233.0
67.5°	224.5	168.2	167.3	146.5	177.6
70°	195.4	152.2	150.4	130.6	131.5
72.5°	165.4	134.4	132.4	117.4	109.0
75°	135.3	113.7	112.7	102.5	88.4
77.5°	106.2	90.2	92.1	82.7	64.8
80°	76.1	65.8	67.6	59.2	48.8
82.5°	50.7	43.2	45.1	37.5	32.9
85°	28.2	24.5	25.4	19.7	15.0
87.5°	13.2	11.3	11.3	7.5	4.7
90°	19.1	12.1	11.3	7.8	4.3
92.5°	117.8	83.8	76.4	46.9	17.4
95°	289.9	163.3	149.7	95.7	41.7
97.5°	390.6	179.3	167.4	119.7	72.1
100°	427.2	192.9	182.0	138.8	95.5
102.5°	444.0	206.3	196.2	155.9	115.5
105°	456.4	226.3	217.8	183.6	149.4
107.5°	458.8	255.8	247.9	216.0	184.2
110°	455.2	272.3	265.1	236.4	207.6



TEST NUMBER: P934707

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	455.4	292.2	285.4	258.0	230.6
115°	459.6	322.2	315.9	290.7	265.3
117.5°	468.2	351.4	345.6	322.6	299.6
120°	475.1	368.3	362.9	341.3	319.6
122.5°	485.1	388.3	382.8	361.0	339.2
125°	498.6	413.9	408.9	389.0	369.1
127.5°	512.0	438.6	433.6	413.6	393.5
130°	521.9	455.1	449.7	428.1	406.5
132.5°	529.9	468.6	463.2	441.6	419.9
135°	538.5	484.3	479.3	459.6	439.9
137.5°	551.5	504.2	499.3	479.8	460.4
140°	559.6	517.7	513.2	495.2	477.3
142.5°	566.2	527.7	523.6	507.0	490.4
145°	574.9	542.8	539.2	524.8	510.3
147.5°	587.6	562.0	558.4	544.3	530.2
150°	594.3	572.0	568.8	556.0	543.3
152.5°	598.6	578.5	576.1	566.5	556.8
155°	608.1	592.8	591.0	583.8	576.7
157.5°	617.7	607.2	605.4	598.5	591.5
160°	622.0	613.6	612.3	606.9	601.5
162.5°	626.7	620.6	619.6	615.6	611.5
165°	633.3	630.6	629.7	626.1	622.3
167.5°	638.6	636.2	635.8	634.1	632.3
170°	642.9	642.8	642.3	640.6	638.9
172.5°	643.2	643.2	643.1	642.7	642.3
175°	645.8	647.1	647.1	647.1	647.1
177.5°	646.0	647.1	647.1	647.1	647.1
180°	647.1	647.1	647.1	647.1	647.1



TEST NUMBER: P934707
 CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-6

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	9.89	10.66	10.95	11.72	13.15	12.72	13.48	13.77	14.54	15.97
	3H	10.36	11.05	11.43	12.11	13.56	14.05	14.74	15.12	15.80	17.26
	4H	10.55	11.20	11.62	12.27	13.72	14.49	15.14	15.57	16.21	17.67
	6H	10.66	11.26	11.75	12.33	13.80	14.77	15.37	15.86	16.44	17.91
	8H	10.66	11.23	11.75	12.32	13.78	14.84	15.41	15.93	16.50	17.96
	12H	10.63	11.17	11.72	12.25	13.74	14.88	15.42	15.97	16.50	17.98
4H	2H	10.91	11.56	11.99	12.63	14.09	13.12	13.76	14.20	14.83	16.29
	3H	11.93	12.47	13.02	13.57	15.04	14.61	15.15	15.70	16.25	17.72
	4H	12.20	12.70	13.30	13.78	15.28	15.13	15.63	16.23	16.71	18.21
	6H	12.32	12.75	13.42	13.86	15.34	15.49	15.92	16.59	17.03	18.51
	8H	12.33	12.72	13.43	13.82	15.32	15.59	15.99	16.70	17.09	18.59
	12H	12.29	12.65	13.41	13.76	15.27	15.65	16.00	16.76	17.12	18.62
8H	4H	12.65	13.04	13.75	14.15	15.65	15.25	15.65	16.35	16.75	18.25
	6H	12.91	13.23	14.03	14.38	15.87	15.68	16.01	16.80	17.15	18.65
	8H	12.95	13.23	14.08	14.36	15.88	15.83	16.12	16.96	17.24	18.76
	12H	12.93	13.18	14.06	14.30	15.85	15.92	16.18	17.06	17.30	18.85
12H	4H	12.65	13.01	13.77	14.12	15.63	15.21	15.57	16.33	16.68	18.19
	6H	12.96	13.25	14.10	14.38	15.89	15.68	15.96	16.81	17.09	18.61
	8H	13.03	13.28	14.16	14.40	15.95	15.83	16.09	16.97	17.21	18.76