

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: P934303

Luminaire Tested: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934303
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

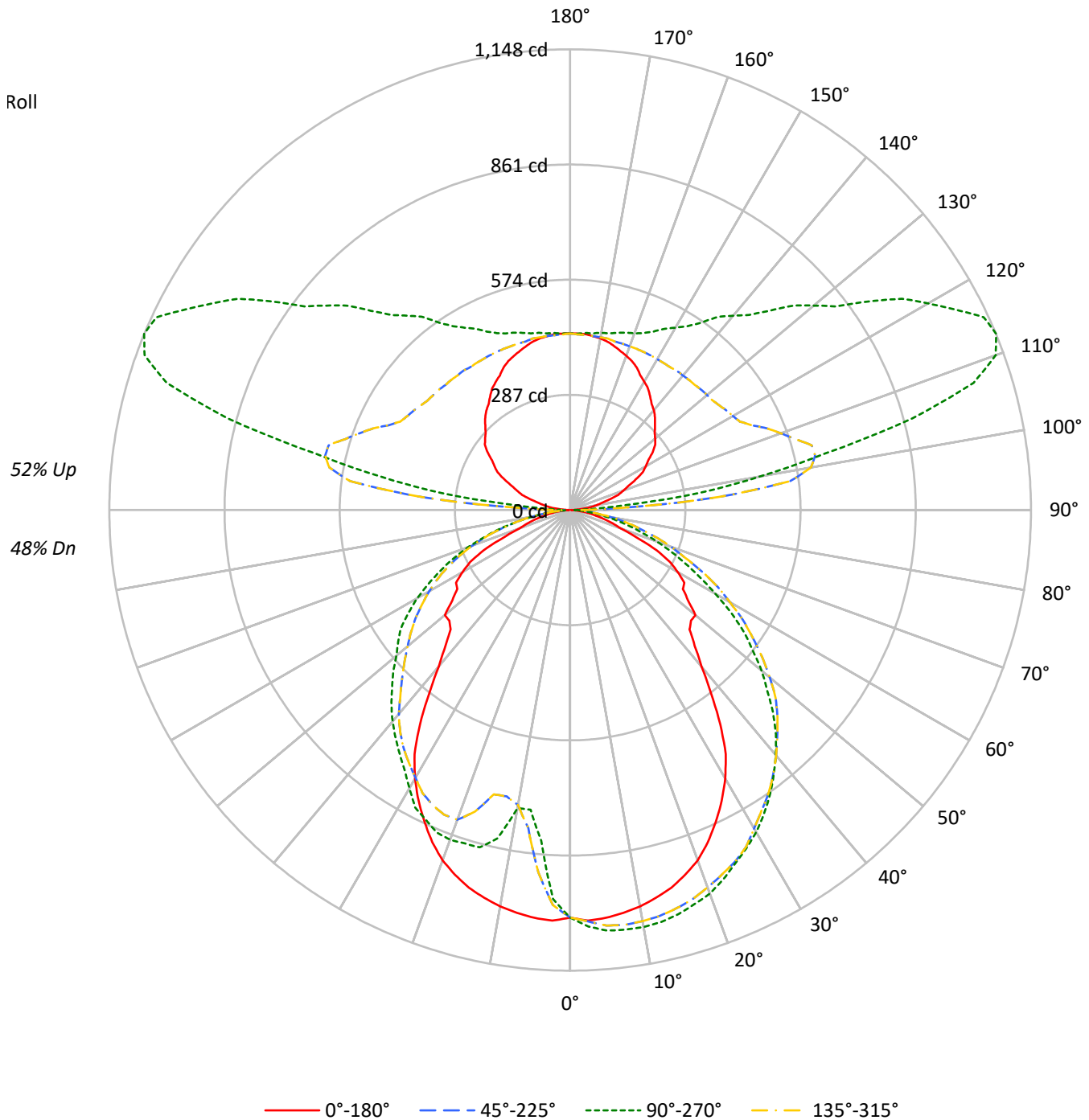
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5486.5 lumens
Efficiency: N/A
Efficacy: 128.8 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: General Diffuse

Input Watts (W): 42.6
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: P934303
CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6326	6341	6326	4986
10°	6281	6247	6281	4466
15°	6211	6111	6211	5103
20°	6079	5951	6079	5113
25°	5811	5717	5811	5005
30°	5465	5523	5465	4768
35°	4870	5277	4870	4506
40°	4055	4989	4055	4308
45°	3621	4649	3621	4081
50°	3843	4247	3843	3853
55°	3612	3811	3612	3721
60°	3719	3237	3719	3408
65°	3368	2676	3368	2992
70°	2326	2132	2326	2508
75°	2032	1576	2032	1888
80°	1624	1041	1624	1135
85°	918	552	918	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5554 cd/sqm



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.7
10°-20°	260.3	4.7
20°-30°	402.3	7.3
30°-40°	480.3	8.8
40°-50°	483.1	8.8
50°-60°	420.3	7.7
60°-70°	298.0	5.4
70°-80°	157.7	2.9
80°-90°	41.0	0.7
90°-100°	214.4	3.9
100°-110°	563.8	10.3
110°-120°	584.6	10.7
120°-130°	468.9	8.5
130°-140°	367.9	6.7
140°-150°	282.4	5.1
150°-160°	203.4	3.7
160°-170°	124.4	2.3
170°-180°	42.0	0.8
0°-30°	754.2	13.7
0°-40°	1234.5	22.5
0°-60°	2137.9	39.0
0°-90°	2634.6	48.0
90°-120°	1362.8	24.8
90°-150°	2482.0	45.2
90°-180°	2852.0	52.0
0°-180°	5486.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1016	1016	1016	1016	1016	
5°	1020	1052	1020	827	1020	97
15°	974	1042	974	870	974	274
25°	858	972	858	851	858	394
35°	652	868	652	741	652	404
45°	421	715	421	627	421	337
55°	343	527	343	515	343	315
65°	238	318	238	356	238	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	3	11	3	11	3	3
95°	28	130	28	130	28	31
105°	102	883	102	883	102	108
115°	180	1137	180	1137	180	178
125°	251	905	251	905	251	223
135°	299	702	299	702	299	231
145°	347	570	347	570	347	217
155°	392	491	392	491	392	180
165°	423	457	423	457	423	119
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



TEST NUMBER: P934303
 CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1024.1	1024.1	1029.9	1031.8	1031.8	1028.9	1026.1	1028.9	1037.6	1040.5	1039.5
5°	1020.2	1028.0	1038.6	1040.5	1042.4	1041.4	1039.5	1041.4	1051.0	1053.0	1053.9
7.5°	1012.6	1027.0	1040.5	1043.3	1046.2	1043.3	1042.4	1044.3	1053.9	1055.8	1055.8
10°	1002.9	1023.2	1038.6	1040.5	1043.3	1040.5	1040.5	1044.3	1053.9	1055.8	1056.8
12.5°	989.6	1017.4	1031.8	1033.7	1037.6	1036.7	1035.6	1039.5	1049.1	1051.0	1051.0
15°	974.2	1006.9	1020.2	1022.2	1028.9	1027.0	1027.0	1030.8	1041.4	1044.3	1043.3
17.5°	953.0	993.4	1008.8	1011.6	1016.4	1015.5	1016.4	1020.2	1029.9	1031.8	1032.7
20°	929.0	975.2	993.4	996.3	1001.0	1001.0	1001.0	1005.9	1015.5	1019.3	1019.3
22.5°	896.4	955.9	975.2	977.1	982.8	982.8	984.7	991.5	1000.1	1001.0	1001.0
25°	857.9	934.8	951.1	956.9	962.6	965.5	968.4	972.3	975.2	974.2	975.2
27.5°	817.6	907.8	929.0	932.8	940.6	943.4	947.3	948.2	949.2	952.0	950.1
30°	772.4	870.4	902.1	905.9	918.4	920.3	916.5	918.4	923.2	925.2	927.1
32.5°	721.5	814.7	874.2	882.9	894.5	888.6	887.7	890.5	898.3	898.3	900.2
35°	652.4	771.4	848.3	856.0	864.7	857.9	861.8	862.7	867.5	870.4	869.4
37.5°	576.4	734.0	821.4	827.1	833.9	825.2	831.0	833.9	837.7	835.8	835.8
40°	509.2	675.4	789.7	793.5	799.3	792.6	798.4	800.3	802.2	800.3	799.3
42.5°	459.3	611.0	756.1	760.8	757.0	761.8	763.8	767.6	764.8	760.8	760.8
45°	420.8	593.7	719.6	725.3	719.6	727.2	730.1	730.1	721.5	719.6	718.6
47.5°	408.3	559.2	683.1	683.1	680.2	689.8	694.6	687.9	679.2	676.3	676.3
50°	407.3	520.7	633.1	629.2	642.7	654.3	649.4	642.7	636.0	625.4	625.4
52.5°	369.9	473.6	568.7	583.1	604.3	611.0	603.4	596.6	585.0	580.3	576.4
55°	342.9	424.6	510.2	539.0	561.1	569.7	555.3	548.6	531.3	528.4	526.5
57.5°	337.2	353.5	456.3	492.9	519.7	518.8	510.2	497.7	483.2	480.4	479.4
60°	309.3	255.6	398.7	442.0	469.8	466.9	459.3	447.7	434.2	432.3	430.4
62.5°	280.5	185.5	333.4	382.4	421.7	420.8	414.1	396.8	387.2	382.4	378.6
65°	238.3	155.7	237.3	318.0	374.6	376.6	362.2	349.7	339.1	333.4	332.4
67.5°	181.5	126.8	160.4	265.2	329.6	327.6	309.3	303.6	290.1	287.3	281.5
70°	134.5	84.5	111.4	215.2	285.4	280.5	266.2	259.4	246.9	240.2	236.4
72.5°	111.4	68.2	81.7	167.1	240.2	234.5	221.9	214.2	203.7	197.9	194.1
75°	90.3	72.0	62.5	124.0	195.0	191.2	179.6	172.0	163.3	155.7	156.6
77.5°	66.3	67.2	49.9	91.3	154.7	148.9	142.2	132.6	128.7	121.1	121.1
80°	49.9	52.8	37.4	62.5	111.4	111.4	105.7	98.9	92.3	88.4	88.4
82.5°	33.6	33.6	27.9	39.3	75.9	73.1	69.1	67.2	63.4	61.5	61.5
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.3
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9	11.2	11.2
92.5°	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5	56.1	53.9
95°	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1	190.4	183.6
97.5°	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3	439.6	426.7
100°	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6	617.4	602.1
102.5°	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1	769.2	756.1
105°	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6	946.3	939.2
107.5°	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2	1038.4	1040.1
110°	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2	1062.1	1069.4



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2	1047.0	1058.2
115°	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4	995.9	1011.5
117.5°	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9	925.3	942.7
120°	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3	877.7	894.6
122.5°	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4	830.3	846.9
125°	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0	767.3	782.6
127.5°	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1	716.8	729.7
130°	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2	685.0	697.0
132.5°	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4	657.8	668.5
135°	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6	619.4	628.7
137.5°	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4	591.0	598.6
140°	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7	568.3	575.4
142.5°	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0	552.4	558.5
145°	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1	528.5	533.1
147.5°	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7	508.4	512.3
150°	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1	496.9	499.9
152.5°	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0	487.7	490.0
155°	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7	476.8	478.4
157.5°	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4	467.4	468.4
160°	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2	462.7	463.3
162.5°	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3	458.2	458.8
165°	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7	451.4	452.1
167.5°	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7	448.5	448.8
170°	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7	448.5	448.5
172.5°	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1	446.1	445.9
175°	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0	442.8	442.8
177.5°	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8	442.3	442.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1041.4	1038.6	1041.4	1039.5	1040.5	1037.6	1028.9	1026.1	1028.9	1031.8	1031.8
5°	1053.9	1051.9	1053.9	1053.9	1053.0	1051.0	1041.4	1039.5	1041.4	1042.4	1040.5
7.5°	1057.8	1054.9	1057.8	1055.8	1055.8	1053.9	1044.3	1042.4	1043.3	1046.2	1043.3
10°	1057.8	1054.9	1057.8	1056.8	1055.8	1053.9	1044.3	1040.5	1040.5	1043.3	1040.5
12.5°	1053.0	1051.0	1053.0	1051.0	1051.0	1049.1	1039.5	1035.6	1036.7	1037.6	1033.7
15°	1045.2	1042.4	1045.2	1043.3	1044.3	1041.4	1030.8	1027.0	1027.0	1028.9	1022.2
17.5°	1033.7	1029.9	1033.7	1032.7	1031.8	1029.9	1020.2	1016.4	1015.5	1016.4	1011.6
20°	1020.2	1017.4	1020.2	1019.3	1019.3	1015.5	1005.9	1001.0	1001.0	1001.0	996.3
22.5°	999.1	996.3	999.1	1001.0	1001.0	1000.1	991.5	984.7	982.8	982.8	977.1
25°	975.2	972.3	975.2	975.2	974.2	975.2	972.3	968.4	965.5	962.6	956.9
27.5°	952.0	950.1	952.0	950.1	952.0	949.2	948.2	947.3	943.4	940.6	932.8
30°	929.0	927.1	929.0	927.1	925.2	923.2	918.4	916.5	920.3	918.4	905.9
32.5°	900.2	898.3	900.2	900.2	898.3	898.3	890.5	887.7	888.6	894.5	882.9
35°	870.4	867.5	870.4	869.4	870.4	867.5	862.7	861.8	857.9	864.7	856.0
37.5°	835.8	833.0	835.8	835.8	835.8	837.7	833.9	831.0	825.2	833.9	827.1
40°	800.3	796.5	800.3	799.3	800.3	802.2	800.3	798.4	792.6	799.3	793.5
42.5°	759.9	758.9	759.9	760.8	760.8	764.8	767.6	763.8	761.8	757.0	760.8
45°	716.7	714.7	716.7	718.6	719.6	721.5	730.1	730.1	727.2	719.6	725.3
47.5°	670.6	665.7	670.6	676.3	676.3	679.2	687.9	694.6	689.8	680.2	683.1
50°	621.6	622.6	621.6	625.4	625.4	636.0	642.7	649.4	654.3	642.7	629.2
52.5°	573.6	572.6	573.6	576.4	580.3	585.0	596.6	603.4	611.0	604.3	583.1
55°	525.5	527.4	525.5	526.5	528.4	531.3	548.6	555.3	569.7	561.1	539.0
57.5°	477.5	474.6	477.5	479.4	480.4	483.2	497.7	510.2	518.8	519.7	492.9
60°	421.7	417.9	421.7	430.4	432.3	434.2	447.7	459.3	466.9	469.8	442.0
62.5°	372.7	366.1	372.7	378.6	382.4	387.2	396.8	414.1	420.8	421.7	382.4
65°	320.9	318.0	320.9	332.4	333.4	339.1	349.7	362.2	376.6	374.6	318.0
67.5°	273.8	273.8	273.8	281.5	287.3	290.1	303.6	309.3	327.6	329.6	265.2
70°	230.5	229.6	230.5	236.4	240.2	246.9	259.4	266.2	280.5	285.4	215.2
72.5°	189.3	188.3	189.3	194.1	197.9	203.7	214.2	221.9	234.5	240.2	167.1
75°	152.8	150.8	152.8	156.6	155.7	163.3	172.0	179.6	191.2	195.0	124.0
77.5°	117.2	117.2	117.2	121.1	121.1	128.7	132.6	142.2	148.9	154.7	91.3
80°	87.4	86.4	87.4	88.4	88.4	92.3	98.9	105.7	111.4	111.4	62.5
82.5°	61.5	59.6	61.5	61.5	61.5	63.4	67.2	69.1	73.1	75.9	39.3
85°	38.4	38.4	38.4	39.3	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.0	24.0	25.0	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0	80.1	57.0
95°	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0	197.1	111.0
97.5°	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1	265.6	122.0
100°	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9	290.4	131.1
102.5°	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3	301.9	140.3
105°	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9	310.3	153.9
107.5°	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8	311.9	173.9
110°	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4	309.5	185.1



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5	309.6	198.7
115°	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0	312.5	219.1
117.5°	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2	318.3	238.8
120°	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8	323.0	250.4
122.5°	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5	329.8	264.0
125°	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7	338.9	281.3
127.5°	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7	348.1	298.2
130°	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2	354.8	309.4
132.5°	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7	360.2	318.6
135°	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3	366.1	329.2
137.5°	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8	374.9	342.7
140°	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3	380.4	351.9
142.5°	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8	384.9	358.7
145°	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8	390.9	369.1
147.5°	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7	399.5	382.1
150°	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2	404.1	388.9
152.5°	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2	406.9	393.3
155°	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4	413.4	403.0
157.5°	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6	419.9	412.8
160°	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5	422.9	417.1
162.5°	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6	426.0	421.9
165°	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1	430.6	428.7
167.5°	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2	434.1	432.5
170°	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2	437.1	437.0
172.5°	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9	439.1	440.0
177.5°	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3	439.3	440.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1029.9	1024.1	1024.1	1014.5	1010.7	1007.8	1002.9	988.6	984.7	980.9	986.6
5°	1038.6	1028.0	1020.2	1002.9	988.6	982.8	964.6	930.0	906.9	889.6	880.0
7.5°	1040.5	1027.0	1012.6	985.7	951.1	935.7	880.0	816.6	799.3	784.0	774.3
10°	1038.6	1023.2	1002.9	962.6	881.0	854.1	798.4	757.0	746.4	743.6	746.4
12.5°	1031.8	1017.4	989.6	922.2	807.9	789.7	757.0	733.1	731.1	735.9	761.8
15°	1020.2	1006.9	974.2	868.5	767.6	754.2	731.1	722.5	733.1	766.7	844.5
17.5°	1008.8	993.4	953.0	815.7	736.9	727.2	710.9	728.2	787.8	833.0	858.8
20°	993.4	975.2	929.0	777.2	714.7	706.1	698.4	776.2	821.4	837.7	852.1
22.5°	975.2	955.9	896.4	750.3	691.7	685.0	689.8	803.2	821.4	833.0	845.5
25°	951.1	934.8	857.9	729.1	673.5	665.7	684.1	800.3	810.8	813.8	838.7
27.5°	929.0	907.8	817.6	709.9	651.4	648.4	688.8	787.8	795.5	798.4	825.2
30°	902.1	870.4	772.4	689.8	628.3	627.3	689.8	772.4	770.5	778.1	805.1
32.5°	874.2	814.7	721.5	664.8	606.2	605.3	683.1	749.4	747.5	758.0	778.1
35°	848.3	771.4	652.4	636.0	578.3	579.3	666.7	722.5	723.4	733.1	745.5
37.5°	821.4	734.0	576.4	604.3	551.4	551.4	644.6	697.4	695.5	698.4	715.8
40°	789.7	675.4	509.2	563.0	526.5	523.6	617.7	670.6	663.8	662.9	686.9
42.5°	756.1	611.0	459.3	508.3	497.7	493.8	585.0	637.9	625.4	628.3	659.0
45°	719.6	593.7	420.8	429.5	467.9	465.0	549.5	600.4	591.8	599.5	631.2
47.5°	683.1	559.2	408.3	356.4	436.1	435.2	510.2	563.9	559.2	566.8	600.4
50°	633.1	520.7	407.3	305.5	400.6	404.4	463.1	528.4	528.4	535.1	570.7
52.5°	568.7	473.6	369.9	276.7	359.3	370.8	421.7	497.7	499.6	506.3	538.0
55°	510.2	424.6	342.9	254.6	310.3	335.3	381.4	465.9	469.8	476.5	505.3
57.5°	456.3	353.5	337.2	228.6	265.2	289.2	345.9	435.2	437.1	442.9	470.7
60°	398.7	255.6	309.3	200.7	225.8	244.0	313.1	398.7	405.4	409.2	433.3
62.5°	333.4	185.5	280.5	181.5	206.6	210.4	286.3	364.1	372.7	375.6	390.0
65°	237.3	155.7	238.3	165.2	186.4	187.4	257.5	328.5	336.3	341.0	351.6
67.5°	160.4	126.8	181.5	149.8	171.0	172.0	229.6	287.3	297.9	301.7	308.4
70°	111.4	84.5	134.5	133.5	153.8	155.7	199.8	249.8	259.4	262.2	266.2
72.5°	81.7	68.2	111.4	120.0	135.4	137.4	169.1	207.5	217.2	220.0	221.9
75°	62.5	72.0	90.3	104.8	115.3	116.2	138.4	169.1	175.8	177.7	178.7
77.5°	49.9	67.2	66.3	84.5	94.2	92.3	108.6	130.6	136.4	136.4	136.4
80°	37.4	52.8	49.9	60.5	69.1	67.2	77.8	93.2	95.1	97.0	96.1
82.5°	27.9	33.6	33.6	38.4	46.1	44.2	51.9	60.5	60.5	60.5	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.0	28.8	32.7	33.6	33.6	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9
92.5°	52.0	31.9	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5
95°	101.8	65.0	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1
97.5°	113.8	81.5	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3
100°	123.8	94.4	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6
102.5°	133.4	106.0	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1
105°	148.0	124.8	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6
107.5°	168.5	146.9	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2
110°	180.2	160.6	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.1	175.4	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2
115°	214.8	197.6	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4
117.5°	234.9	219.4	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9
120°	246.7	232.0	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3
122.5°	260.2	245.4	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4
125°	278.0	264.4	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0
127.5°	294.8	281.2	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1
130°	305.8	291.1	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2
132.5°	315.0	300.3	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4
135°	325.8	312.5	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6
137.5°	339.4	326.2	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4
140°	348.9	336.7	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7
142.5°	355.8	344.6	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0
145°	366.6	356.8	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1
147.5°	379.7	370.1	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7
150°	386.7	378.1	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1
152.5°	391.6	385.1	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0
155°	401.8	397.0	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7
157.5°	411.6	406.8	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4
160°	416.2	412.6	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2
162.5°	421.3	418.5	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3
165°	428.0	425.5	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7
167.5°	432.2	431.0	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7
170°	436.7	435.5	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7
172.5°	437.2	437.0	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1
175°	440.0	440.0	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0
177.5°	440.0	440.0	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934303
 CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	979.9	977.1	980.9	970.3	980.9	977.1	979.9	986.6	980.9	984.7	988.6
5°	859.9	855.0	839.6	827.1	839.6	855.0	859.9	880.0	889.6	906.9	930.0
7.5°	768.6	764.8	760.8	753.2	760.8	764.8	768.6	774.3	784.0	799.3	816.6
10°	748.4	749.4	755.1	754.2	755.1	749.4	748.4	746.4	743.6	746.4	757.0
12.5°	800.3	808.9	840.6	838.7	840.6	808.9	800.3	761.8	735.9	731.1	733.1
15°	859.9	862.7	869.4	870.4	869.4	862.7	859.9	844.5	766.7	733.1	722.5
17.5°	865.6	866.6	871.3	871.3	871.3	866.6	865.6	858.8	833.0	787.8	728.2
20°	860.8	862.7	872.3	874.2	872.3	862.7	860.8	852.1	837.7	821.4	776.2
22.5°	858.8	862.7	870.4	869.4	870.4	862.7	858.8	845.5	833.0	821.4	803.2
25°	849.3	849.3	850.2	851.2	850.2	849.3	849.3	838.7	813.8	810.8	800.3
27.5°	829.1	831.0	836.8	835.8	836.8	831.0	829.1	825.2	798.4	795.5	787.8
30°	810.8	808.9	804.1	800.3	804.1	808.9	810.8	805.1	778.1	770.5	772.4
32.5°	780.1	775.3	770.5	767.6	770.5	775.3	780.1	778.1	758.0	747.5	749.4
35°	743.6	744.5	743.6	740.7	743.6	744.5	743.6	745.5	733.1	723.4	722.5
37.5°	717.7	719.6	718.6	714.7	718.6	719.6	717.7	715.8	698.4	695.5	697.4
40°	690.8	691.7	690.8	687.9	690.8	691.7	690.8	686.9	662.9	663.8	670.6
42.5°	664.8	663.8	661.0	659.0	661.0	663.8	664.8	659.0	628.3	625.4	637.9
45°	635.1	636.0	630.2	627.3	630.2	636.0	635.1	631.2	599.5	591.8	600.4
47.5°	605.3	605.3	600.4	597.5	600.4	605.3	605.3	600.4	566.8	559.2	563.9
50°	573.6	572.6	565.8	564.9	565.8	572.6	573.6	570.7	535.1	528.4	528.4
52.5°	537.0	537.0	538.0	540.0	538.0	537.0	537.0	538.0	506.3	499.6	497.7
55°	505.3	506.3	513.0	514.9	513.0	506.3	505.3	505.3	476.5	469.8	465.9
57.5°	472.6	472.6	477.5	477.5	477.5	472.6	472.6	470.7	442.9	437.1	435.2
60°	435.2	437.1	440.9	440.0	440.9	437.1	435.2	433.3	409.2	405.4	398.7
62.5°	395.8	397.8	398.7	396.8	398.7	397.8	395.8	390.0	375.6	372.7	364.1
65°	354.5	356.4	357.4	355.5	357.4	356.4	354.5	351.6	341.0	336.3	328.5
67.5°	312.2	311.2	310.3	314.2	310.3	311.2	312.2	308.4	301.7	297.9	287.3
70°	269.0	269.0	268.1	270.0	268.1	269.0	269.0	266.2	262.2	259.4	249.8
72.5°	222.9	221.9	225.8	222.9	225.8	221.9	222.9	221.9	220.0	217.2	207.5
75°	177.7	179.6	177.7	180.6	177.7	179.6	177.7	178.7	177.7	175.8	169.1
77.5°	135.4	137.4	135.4	135.4	135.4	137.4	135.4	136.4	136.4	136.4	130.6
80°	96.1	95.1	95.1	94.2	95.1	95.1	96.1	96.1	97.0	95.1	93.2
82.5°	61.5	60.5	60.5	62.5	60.5	60.5	61.5	62.5	60.5	60.5	60.5
85°	33.6	34.6	32.7	32.7	32.7	34.6	33.6	31.7	33.6	33.6	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0
95°	190.4	183.6	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0
97.5°	439.6	426.7	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1
100°	617.4	602.1	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9
102.5°	769.2	756.1	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3
105°	946.3	939.2	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9
107.5°	1038.4	1040.1	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8
110°	1062.1	1069.4	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1047.0	1058.2	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5
115°	995.9	1011.5	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0
117.5°	925.3	942.7	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2
120°	877.7	894.6	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8
122.5°	830.3	846.9	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5
125°	767.3	782.6	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7
127.5°	716.8	729.7	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7
130°	685.0	697.0	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2
132.5°	657.8	668.5	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7
135°	619.4	628.7	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3
137.5°	591.0	598.6	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8
140°	568.3	575.4	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3
142.5°	552.4	558.5	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8
145°	528.5	533.1	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8
147.5°	508.4	512.3	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7
150°	496.9	499.9	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2
152.5°	487.7	490.0	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2
155°	476.8	478.4	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4
157.5°	467.4	468.4	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6
160°	462.7	463.3	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5
162.5°	458.2	458.8	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6
165°	451.4	452.1	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1
167.5°	448.5	448.8	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2
170°	448.5	448.5	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2
172.5°	446.1	445.9	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9
177.5°	442.3	442.0	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1002.9	1007.8	1010.7	1014.5	1024.1
5°	964.6	982.8	988.6	1002.9	1020.2
7.5°	880.0	935.7	951.1	985.7	1012.6
10°	798.4	854.1	881.0	962.6	1002.9
12.5°	757.0	789.7	807.9	922.2	989.6
15°	731.1	754.2	767.6	868.5	974.2
17.5°	710.9	727.2	736.9	815.7	953.0
20°	698.4	706.1	714.7	777.2	929.0
22.5°	689.8	685.0	691.7	750.3	896.4
25°	684.1	665.7	673.5	729.1	857.9
27.5°	688.8	648.4	651.4	709.9	817.6
30°	689.8	627.3	628.3	689.8	772.4
32.5°	683.1	605.3	606.2	664.8	721.5
35°	666.7	579.3	578.3	636.0	652.4
37.5°	644.6	551.4	551.4	604.3	576.4
40°	617.7	523.6	526.5	563.0	509.2
42.5°	585.0	493.8	497.7	508.3	459.3
45°	549.5	465.0	467.9	429.5	420.8
47.5°	510.2	435.2	436.1	356.4	408.3
50°	463.1	404.4	400.6	305.5	407.3
52.5°	421.7	370.8	359.3	276.7	369.9
55°	381.4	335.3	310.3	254.6	342.9
57.5°	345.9	289.2	265.2	228.6	337.2
60°	313.1	244.0	225.8	200.7	309.3
62.5°	286.3	210.4	206.6	181.5	280.5
65°	257.5	187.4	186.4	165.2	238.3
67.5°	229.6	172.0	171.0	149.8	181.5
70°	199.8	155.7	153.8	133.5	134.5
72.5°	169.1	137.4	135.4	120.0	111.4
75°	138.4	116.2	115.3	104.8	90.3
77.5°	108.6	92.3	94.2	84.5	66.3
80°	77.8	67.2	69.1	60.5	49.9
82.5°	51.9	44.2	46.1	38.4	33.6
85°	28.8	25.0	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.1	57.0	52.0	31.9	11.8
95°	197.1	111.0	101.8	65.0	28.4
97.5°	265.6	122.0	113.8	81.5	49.0
100°	290.4	131.1	123.8	94.4	64.9
102.5°	301.9	140.3	133.4	106.0	78.5
105°	310.3	153.9	148.0	124.8	101.6
107.5°	311.9	173.9	168.5	146.9	125.2
110°	309.5	185.1	180.2	160.6	141.1



TEST NUMBER: P934303

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	309.6	198.7	194.1	175.4	156.8
115°	312.5	219.1	214.8	197.6	180.4
117.5°	318.3	238.8	234.9	219.4	203.7
120°	323.0	250.4	246.7	232.0	217.3
122.5°	329.8	264.0	260.2	245.4	230.6
125°	338.9	281.3	278.0	264.4	251.0
127.5°	348.1	298.2	294.8	281.2	267.5
130°	354.8	309.4	305.8	291.1	276.4
132.5°	360.2	318.6	315.0	300.3	285.5
135°	366.1	329.2	325.8	312.5	299.1
137.5°	374.9	342.7	339.4	326.2	313.0
140°	380.4	351.9	348.9	336.7	324.5
142.5°	384.9	358.7	355.8	344.6	333.3
145°	390.9	369.1	366.6	356.8	347.0
147.5°	399.5	382.1	379.7	370.1	360.5
150°	404.1	388.9	386.7	378.1	369.4
152.5°	406.9	393.3	391.6	385.1	378.5
155°	413.4	403.0	401.8	397.0	392.1
157.5°	419.9	412.8	411.6	406.8	402.2
160°	422.9	417.1	416.2	412.6	408.9
162.5°	426.0	421.9	421.3	418.5	415.7
165°	430.6	428.7	428.0	425.5	423.1
167.5°	434.1	432.5	432.2	431.0	429.8
170°	437.1	437.0	436.7	435.5	434.3
172.5°	437.3	437.3	437.2	437.0	436.7
175°	439.1	440.0	440.0	440.0	440.0
177.5°	439.3	440.0	440.0	440.0	440.0
180°	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934303
 CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-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	11.00	11.84	11.97	12.83	14.13	13.83	14.67	14.80	15.66	16.96
	3H	11.48	12.23	12.46	13.23	14.55	15.17	15.92	16.15	16.92	18.24
	4H	11.67	12.38	12.67	13.38	14.71	15.61	16.33	16.61	17.33	18.66
	6H	11.78	12.44	12.79	13.45	14.79	15.89	16.55	16.90	17.56	18.90
	8H	11.79	12.41	12.80	13.43	14.77	15.97	16.59	16.98	17.62	18.95
	12H	11.76	12.35	12.78	13.37	14.73	16.00	16.60	17.02	17.62	18.98
4H	2H	12.03	12.75	13.03	13.75	15.08	14.23	14.95	15.24	15.95	17.28
	3H	13.06	13.65	14.07	14.68	16.02	15.74	16.33	16.75	17.36	18.70
	4H	13.33	13.88	14.35	14.90	16.26	16.26	16.81	17.28	17.83	19.19
	6H	13.46	13.92	14.49	14.97	16.33	16.62	17.09	17.66	18.14	19.50
	8H	13.46	13.90	14.49	14.94	16.31	16.73	17.17	17.76	18.21	19.58
	12H	13.43	13.82	14.48	14.88	16.26	16.78	17.18	17.84	18.23	19.62
8H	4H	13.78	14.22	14.82	15.26	16.64	16.38	16.82	17.42	17.86	19.24
	6H	14.04	14.41	15.10	15.48	16.86	16.82	17.18	17.88	18.26	19.64
	8H	14.09	14.40	15.15	15.47	16.86	16.97	17.29	18.04	18.35	19.75
	12H	14.07	14.35	15.14	15.41	16.84	17.07	17.35	18.14	18.41	19.84
12H	4H	13.79	14.18	14.84	15.24	16.62	16.35	16.74	17.40	17.80	19.18
	6H	14.10	14.42	15.17	15.49	16.88	16.82	17.13	17.88	18.20	19.59
	8H	14.17	14.45	15.24	15.51	16.94	16.98	17.26	18.04	18.32	19.75