

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: P934810

Luminaire Tested: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934810
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

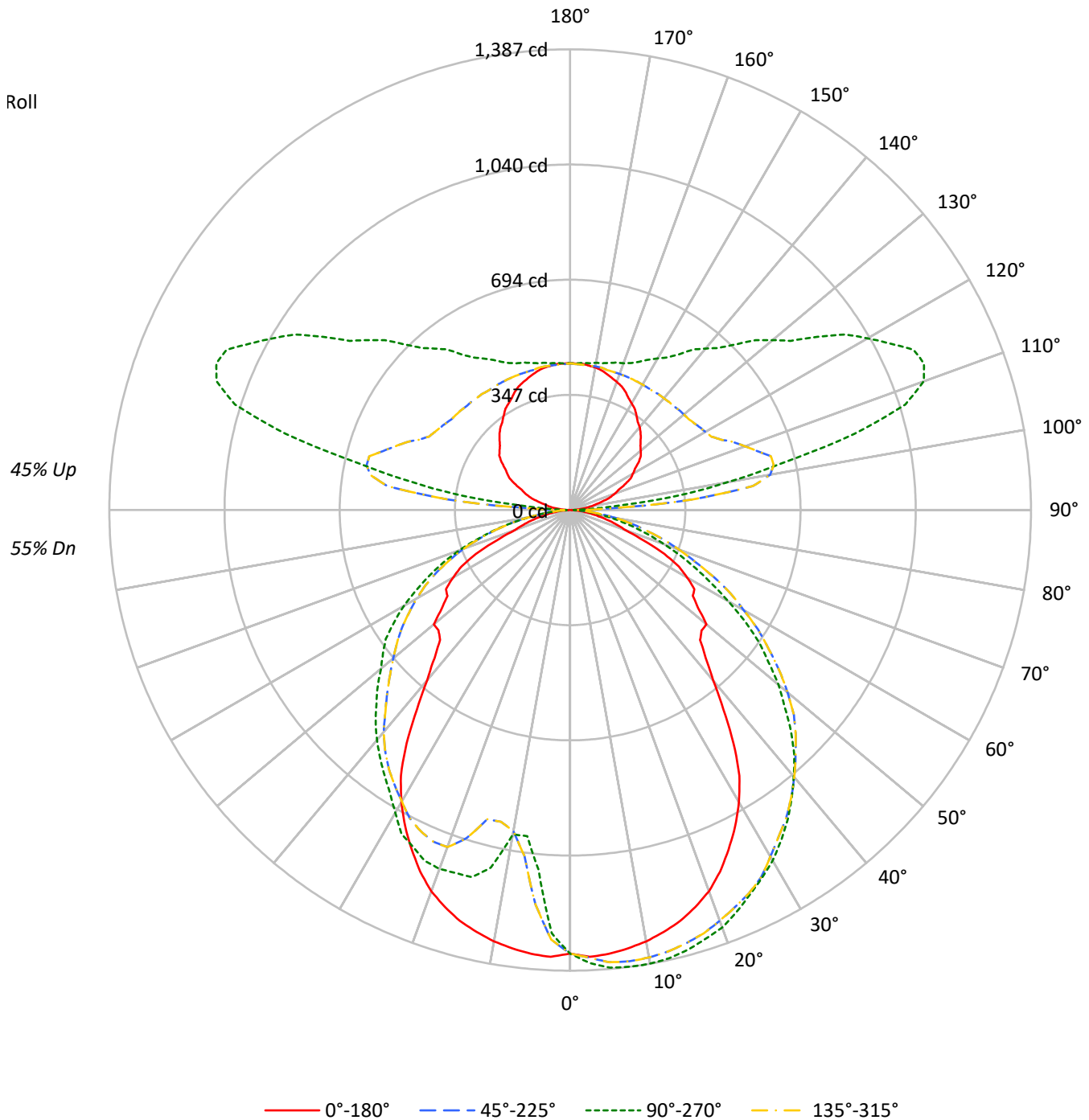
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6325.9 lumens
Efficiency: N/A
Efficacy: 123.6 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: General Diffuse

Input Watts (W): 51.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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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
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46		
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12468	12506	12468	9833
10°	12371	12319	12371	8808
15°	12222	12051	12222	10063
20°	11952	11736	11952	10084
25°	11416	11275	11416	9871
30°	10727	10892	10727	9402
35°	9548	10408	9548	8887
40°	7943	9837	7943	8497
45°	7082	9170	7082	8048
50°	7508	8374	7508	7599
55°	7043	7517	7043	7338
60°	7234	6383	7234	6722
65°	6529	5277	6529	5900
70°	4491	4206	4491	4946
75°	3892	3109	3892	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10877 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.9
10°-20°	342.2	5.4
20°-30°	528.9	8.4
30°-40°	631.4	10.0
40°-50°	635.2	10.0
50°-60°	552.7	8.7
60°-70°	391.8	6.2
70°-80°	207.3	3.3
80°-90°	53.3	0.8
90°-100°	215.3	3.4
100°-110°	565.9	8.9
110°-120°	586.8	9.3
120°-130°	470.7	7.4
130°-140°	369.3	5.8
140°-150°	283.4	4.5
150°-160°	204.1	3.2
160°-170°	124.9	2.0
170°-180°	42.2	0.7
0°-30°	991.6	15.7
0°-40°	1623.1	25.7
0°-60°	2810.9	44.4
0°-90°	3463.4	54.7
90°-120°	1367.9	21.6
90°-150°	2491.3	39.4
90°-180°	2863.0	45.3
0°-180°	6325.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1370	1281	1144	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	467	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	909	252	909	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	394	492	394	492	394	181
165°	425	459	425	459	425	120
175°	442	444	442	444	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1346.4	1346.4	1354.1	1356.6	1356.6	1352.7	1349.0	1352.7	1364.1	1367.9	1366.7
5°	1341.5	1351.5	1365.5	1367.9	1370.4	1369.2	1366.7	1369.2	1381.8	1384.4	1385.6
7.5°	1331.3	1350.3	1367.9	1371.8	1375.5	1371.8	1370.4	1373.0	1385.6	1388.1	1388.1
10°	1318.7	1345.2	1365.5	1367.9	1371.8	1367.9	1367.9	1373.0	1385.6	1388.1	1389.5
12.5°	1301.0	1337.6	1356.6	1359.1	1364.1	1362.9	1361.6	1366.7	1379.3	1381.8	1381.8
15°	1280.8	1323.8	1341.5	1343.9	1352.7	1350.3	1350.3	1355.3	1369.2	1373.0	1371.8
17.5°	1253.0	1306.1	1326.3	1330.1	1336.4	1335.1	1336.4	1341.5	1354.1	1356.6	1357.8
20°	1221.4	1282.1	1306.1	1309.8	1316.1	1316.1	1316.1	1322.4	1335.1	1340.1	1340.1
22.5°	1178.5	1256.8	1282.1	1284.6	1292.1	1292.1	1294.7	1303.5	1314.9	1316.1	1316.1
25°	1128.0	1229.0	1250.4	1258.1	1265.6	1269.4	1273.2	1278.3	1282.1	1280.8	1282.1
27.5°	1074.9	1193.7	1221.4	1226.5	1236.6	1240.4	1245.4	1246.7	1248.0	1251.7	1249.2
30°	1015.6	1144.3	1186.0	1191.1	1207.5	1210.0	1205.0	1207.5	1213.8	1216.4	1218.9
32.5°	948.5	1071.1	1149.4	1160.8	1176.0	1168.3	1167.1	1170.9	1181.0	1181.0	1183.5
35°	857.6	1014.3	1115.4	1125.4	1136.8	1128.0	1133.0	1134.3	1140.6	1144.3	1143.1
37.5°	757.8	965.0	1080.0	1087.5	1096.3	1085.0	1092.6	1096.3	1101.4	1098.9	1098.9
40°	669.5	887.9	1038.3	1043.3	1050.9	1042.0	1049.6	1052.2	1054.7	1052.2	1050.9
42.5°	603.8	803.3	994.0	1000.4	995.3	1001.6	1004.2	1009.2	1005.4	1000.4	1000.4
45°	553.2	780.6	946.1	953.6	946.1	956.2	959.9	959.9	948.5	946.1	944.8
47.5°	536.8	735.2	898.1	898.1	894.2	906.9	913.3	904.4	893.0	889.3	889.3
50°	535.6	684.6	832.4	827.3	845.0	860.2	853.9	845.0	836.2	822.3	822.3
52.5°	486.3	622.7	747.8	766.7	794.5	803.3	793.2	784.4	769.2	762.9	757.8
55°	450.9	558.3	670.7	708.6	737.6	749.0	730.1	721.2	698.5	694.7	692.1
57.5°	443.4	464.8	600.0	648.0	683.3	682.1	670.7	654.3	635.4	631.5	630.3
60°	406.7	335.9	524.2	581.1	617.7	613.8	603.8	588.6	570.9	568.4	565.9
62.5°	368.8	243.8	438.3	502.8	554.5	553.2	544.4	521.7	509.1	502.8	497.7
65°	313.3	204.6	311.9	418.1	492.6	495.1	476.2	459.7	445.9	438.3	437.0
67.5°	238.7	166.7	210.9	348.7	433.3	430.7	406.7	399.1	381.4	377.6	370.1
70°	176.9	111.2	146.6	283.0	375.1	368.8	349.9	341.0	324.7	315.8	310.7
72.5°	146.6	89.7	107.4	219.8	315.8	308.2	291.8	281.6	267.8	260.2	255.2
75°	118.7	94.7	82.1	162.9	256.4	251.3	236.2	226.1	214.7	204.6	205.9
77.5°	87.2	88.4	65.7	120.0	203.3	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.2	116.2
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.5	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.5	31.5
90°	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0	191.1	184.3
97.5°	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1	441.3	428.4
100°	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9	619.7	604.3
102.5°	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8	772.0	758.8
105°	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8	949.8	942.7
107.5°	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5	1042.2	1044.0
110°	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4	1065.9	1073.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4	1050.8	1062.2
115°	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4	999.6	1015.3
117.5°	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8	928.8	946.2
120°	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1	881.0	898.0
122.5°	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9	833.3	850.1
125°	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5	770.2	785.6
127.5°	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6	719.6	732.6
130°	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4	687.6	699.5
132.5°	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6	660.3	671.0
135°	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7	621.8	631.1
137.5°	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5	593.3	600.8
140°	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6	570.4	577.5
142.5°	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0	554.5	560.6
145°	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9	530.5	535.1
147.5°	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6	510.3	514.1
150°	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8	498.7	501.8
152.5°	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7	489.6	491.9
155°	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3	478.6	480.1
157.5°	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0	469.1	470.2
160°	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0	464.4	465.0
162.5°	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9	459.9	460.5
165°	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4	453.1	453.8
167.5°	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5	450.2	450.5
170°	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5	450.2	450.2
172.5°	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8	447.8	447.6
175°	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6	444.5	444.5
177.5°	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4	444.0	443.7
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1369.2	1365.5	1369.2	1366.7	1367.9	1364.1	1352.7	1349.0	1352.7	1356.6	1356.6
5°	1385.6	1383.1	1385.6	1385.6	1384.4	1381.8	1369.2	1366.7	1369.2	1370.4	1367.9
7.5°	1390.7	1386.9	1390.7	1388.1	1388.1	1385.6	1373.0	1370.4	1371.8	1375.5	1371.8
10°	1390.7	1386.9	1390.7	1389.5	1388.1	1385.6	1373.0	1367.9	1367.9	1371.8	1367.9
12.5°	1384.4	1381.8	1384.4	1381.8	1381.8	1379.3	1366.7	1361.6	1362.9	1364.1	1359.1
15°	1374.2	1370.4	1374.2	1371.8	1373.0	1369.2	1355.3	1350.3	1350.3	1352.7	1343.9
17.5°	1359.1	1354.1	1359.1	1357.8	1356.6	1354.1	1341.5	1336.4	1335.1	1336.4	1330.1
20°	1341.5	1337.6	1341.5	1340.1	1340.1	1335.1	1322.4	1316.1	1316.1	1316.1	1309.8
22.5°	1313.6	1309.8	1313.6	1316.1	1316.1	1314.9	1303.5	1294.7	1292.1	1292.1	1284.6
25°	1282.1	1278.3	1282.1	1282.1	1280.8	1282.1	1278.3	1273.2	1269.4	1265.6	1258.1
27.5°	1251.7	1249.2	1251.7	1249.2	1251.7	1248.0	1246.7	1245.4	1240.4	1236.6	1226.5
30°	1221.4	1218.9	1221.4	1218.9	1216.4	1213.8	1207.5	1205.0	1210.0	1207.5	1191.1
32.5°	1183.5	1181.0	1183.5	1183.5	1181.0	1181.0	1170.9	1167.1	1168.3	1176.0	1160.8
35°	1144.3	1140.6	1144.3	1143.1	1144.3	1140.6	1134.3	1133.0	1128.0	1136.8	1125.4
37.5°	1098.9	1095.1	1098.9	1098.9	1098.9	1101.4	1096.3	1092.6	1085.0	1096.3	1087.5
40°	1052.2	1047.1	1052.2	1050.9	1052.2	1054.7	1052.2	1049.6	1042.0	1050.9	1043.3
42.5°	999.1	997.9	999.1	1000.4	1000.4	1005.4	1009.2	1004.2	1001.6	995.3	1000.4
45°	942.2	939.7	942.2	944.8	946.1	948.5	959.9	959.9	956.2	946.1	953.6
47.5°	881.6	875.3	881.6	889.3	889.3	893.0	904.4	913.3	906.9	894.2	898.1
50°	817.2	818.5	817.2	822.3	822.3	836.2	845.0	853.9	860.2	845.0	827.3
52.5°	754.1	752.8	754.1	757.8	762.9	769.2	784.4	793.2	803.3	794.5	766.7
55°	690.9	693.5	690.9	692.1	694.7	698.5	721.2	730.1	749.0	737.6	708.6
57.5°	627.8	624.0	627.8	630.3	631.5	635.4	654.3	670.7	682.1	683.3	648.0
60°	554.5	549.4	554.5	565.9	568.4	570.9	588.6	603.8	613.8	617.7	581.1
62.5°	490.0	481.3	490.0	497.7	502.8	509.1	521.7	544.4	553.2	554.5	502.8
65°	421.9	418.1	421.9	437.0	438.3	445.9	459.7	476.2	495.1	492.6	418.1
67.5°	360.0	360.0	360.0	370.1	377.6	381.4	399.1	406.7	430.7	433.3	348.7
70°	303.1	301.9	303.1	310.7	315.8	324.7	341.0	349.9	368.8	375.1	283.0
72.5°	248.8	247.6	248.8	255.2	260.2	267.8	281.6	291.8	308.2	315.8	219.8
75°	200.9	198.3	200.9	205.9	204.6	214.7	226.1	236.2	251.3	256.4	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.3	120.0
80°	114.9	113.7	114.9	116.2	116.2	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.1	27.8	17.7
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4	80.4	57.2
95°	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1	197.9	111.5
97.5°	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7	266.5	122.4
100°	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8	291.5	131.5
102.5°	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3	303.0	140.7
105°	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9	311.5	154.4
107.5°	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7	313.1	174.6
110°	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1	310.7	185.8



TEST NUMBER: P934810

CATALOG NUMBER: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3	310.8	199.4
115°	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6	313.7	219.9
117.5°	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7	319.5	239.8
120°	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4	324.2	251.3
122.5°	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1	331.0	264.9
125°	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3	340.2	282.4
127.5°	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2	349.4	299.3
130°	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8	356.1	310.6
132.5°	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3	361.6	319.8
135°	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9	367.5	330.4
137.5°	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5	376.4	344.1
140°	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9	381.8	353.2
142.5°	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4	386.3	360.0
145°	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4	392.2	370.4
147.5°	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3	400.9	383.5
150°	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8	405.5	390.3
152.5°	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8	408.5	394.7
155°	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0	415.0	404.5
157.5°	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2	421.5	414.3
160°	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1	424.5	418.7
162.5°	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2	427.6	423.5
165°	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7	432.2	430.3
167.5°	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8	435.7	434.1
170°	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8	438.7	438.6
172.5°	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5	440.7	441.6
177.5°	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0	440.9	441.6
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934810

CATALOG NUMBER: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1354.1	1346.4	1346.4	1333.8	1328.7	1325.0	1318.7	1299.8	1294.7	1289.6	1297.2
5°	1365.5	1351.5	1341.5	1318.7	1299.8	1292.1	1268.1	1222.7	1192.3	1169.7	1157.0
7.5°	1367.9	1350.3	1331.3	1296.0	1250.4	1230.3	1157.0	1073.7	1050.9	1030.7	1018.0
10°	1365.5	1345.2	1318.7	1265.6	1158.3	1122.9	1049.6	995.3	981.4	977.6	981.4
12.5°	1356.6	1337.6	1301.0	1212.6	1062.3	1038.3	995.3	963.7	961.3	967.6	1001.6
15°	1341.5	1323.8	1280.8	1141.8	1009.2	991.6	961.3	949.9	963.7	1007.9	1110.3
17.5°	1326.3	1306.1	1253.0	1072.3	968.8	956.2	934.7	957.4	1035.7	1095.1	1129.2
20°	1306.1	1282.1	1221.4	1021.9	939.7	928.4	918.2	1020.6	1080.0	1101.4	1120.3
22.5°	1282.1	1256.8	1178.5	986.5	909.4	900.6	906.9	1056.0	1080.0	1095.1	1111.5
25°	1250.4	1229.0	1128.0	958.7	885.4	875.3	899.3	1052.2	1066.0	1069.9	1102.7
27.5°	1221.4	1193.7	1074.9	933.4	856.4	852.6	905.6	1035.7	1045.9	1049.6	1085.0
30°	1186.0	1144.3	1015.6	906.9	826.1	824.8	906.9	1015.6	1013.0	1023.1	1058.5
32.5°	1149.4	1071.1	948.5	874.1	797.0	795.8	898.1	985.3	982.7	996.6	1023.1
35°	1115.4	1014.3	857.6	836.2	760.4	761.6	876.6	949.9	951.1	963.7	980.2
37.5°	1080.0	965.0	757.8	794.5	725.0	725.0	847.5	917.0	914.5	918.2	941.0
40°	1038.3	887.9	669.5	740.1	692.1	688.4	812.2	881.6	872.8	871.6	903.1
42.5°	994.0	803.3	603.8	668.1	654.3	649.2	769.2	838.7	822.3	826.1	866.5
45°	946.1	780.6	553.2	564.6	615.1	611.4	722.4	789.5	778.1	788.2	829.9
47.5°	898.1	735.2	536.8	468.6	573.4	572.2	670.7	741.5	735.2	745.2	789.5
50°	832.4	684.6	535.6	401.7	526.8	531.7	608.8	694.7	694.7	703.5	750.3
52.5°	747.8	622.7	486.3	363.8	472.4	487.6	554.5	654.3	656.8	665.7	707.3
55°	670.7	558.3	450.9	334.7	408.0	440.8	501.4	612.6	617.7	626.5	664.4
57.5°	600.0	464.8	443.4	300.7	348.7	380.2	454.7	572.2	574.7	582.3	618.9
60°	524.2	335.9	406.7	264.0	296.8	320.8	411.7	524.2	533.1	538.0	569.7
62.5°	438.3	243.8	368.8	238.7	271.6	276.7	376.4	478.7	490.0	493.9	512.8
65°	311.9	204.6	313.3	217.3	245.0	246.3	338.5	432.0	442.1	448.4	462.3
67.5°	210.9	166.7	238.7	197.0	224.9	226.1	301.9	377.6	391.6	396.6	405.4
70°	146.6	111.2	176.9	175.6	202.1	204.6	262.7	328.4	341.0	344.8	349.9
72.5°	107.4	89.7	146.6	157.9	178.1	180.6	222.3	272.8	285.5	289.3	291.8
75°	82.1	94.7	118.7	137.7	151.5	152.9	181.9	222.3	231.2	233.6	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.7	171.8	179.3	179.3	179.3
80°	49.2	69.5	65.7	79.5	90.9	88.4	102.3	122.6	125.0	127.5	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.5	79.5	79.5	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0
92.5°	52.1	32.0	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8
95°	102.3	65.4	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0
97.5°	114.2	81.7	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1
100°	124.2	94.6	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9
102.5°	133.8	106.4	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8
105°	148.6	125.2	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8
107.5°	169.1	147.4	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5
110°	181.0	161.3	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4



TEST NUMBER: P934810

CATALOG NUMBER: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.7	176.1	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4
115°	215.6	198.3	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4
117.5°	235.8	220.2	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8
120°	247.6	232.9	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1
122.5°	261.2	246.4	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9
125°	279.1	265.5	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5
127.5°	295.9	282.2	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6
130°	306.9	292.2	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4
132.5°	316.1	301.3	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6
135°	327.0	313.6	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7
137.5°	340.7	327.4	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5
140°	350.2	337.9	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6
142.5°	357.2	345.9	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0
145°	368.0	358.1	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9
147.5°	381.1	371.4	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6
150°	388.1	379.4	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8
152.5°	393.1	386.5	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7
155°	403.2	398.5	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3
157.5°	413.2	408.4	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0
160°	417.8	414.1	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0
162.5°	422.8	420.1	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9
165°	429.6	427.1	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4
167.5°	433.8	432.6	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5
170°	438.3	437.1	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5
172.5°	438.8	438.6	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8
175°	441.6	441.6	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6
177.5°	441.6	441.6	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934810
 CATALOG NUMBER: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1288.4	1284.6	1289.6	1275.7	1289.6	1284.6	1288.4	1297.2	1289.6	1294.7	1299.8
5°	1130.5	1124.2	1104.0	1087.5	1104.0	1124.2	1130.5	1157.0	1169.7	1192.3	1222.7
7.5°	1010.5	1005.4	1000.4	990.2	1000.4	1005.4	1010.5	1018.0	1030.7	1050.9	1073.7
10°	983.9	985.3	992.8	991.6	992.8	985.3	983.9	981.4	977.6	981.4	995.3
12.5°	1052.2	1063.6	1105.2	1102.7	1105.2	1063.6	1052.2	1001.6	967.6	961.3	963.7
15°	1130.5	1134.3	1143.1	1144.3	1143.1	1134.3	1130.5	1110.3	1007.9	963.7	949.9
17.5°	1138.0	1139.4	1145.7	1145.7	1145.7	1139.4	1138.0	1129.2	1095.1	1035.7	957.4
20°	1131.7	1134.3	1146.9	1149.4	1146.9	1134.3	1131.7	1120.3	1101.4	1080.0	1020.6
22.5°	1129.2	1134.3	1144.3	1143.1	1144.3	1134.3	1129.2	1111.5	1095.1	1080.0	1056.0
25°	1116.6	1116.6	1117.9	1119.1	1117.9	1116.6	1116.6	1102.7	1069.9	1066.0	1052.2
27.5°	1090.0	1092.6	1100.2	1098.9	1100.2	1092.6	1090.0	1085.0	1049.6	1045.9	1035.7
30°	1066.0	1063.6	1057.2	1052.2	1057.2	1063.6	1066.0	1058.5	1023.1	1013.0	1015.6
32.5°	1025.6	1019.3	1013.0	1009.2	1013.0	1019.3	1025.6	1023.1	996.6	982.7	985.3
35°	977.6	978.9	977.6	973.9	977.6	978.9	977.6	980.2	963.7	951.1	949.9
37.5°	943.6	946.1	944.8	939.7	944.8	946.1	943.6	941.0	918.2	914.5	917.0
40°	908.2	909.4	908.2	904.4	908.2	909.4	908.2	903.1	871.6	872.8	881.6
42.5°	874.1	872.8	869.0	866.5	869.0	872.8	874.1	866.5	826.1	822.3	838.7
45°	834.9	836.2	828.6	824.8	828.6	836.2	834.9	829.9	788.2	778.1	789.5
47.5°	795.8	795.8	789.5	785.6	789.5	795.8	795.8	789.5	745.2	735.2	741.5
50°	754.1	752.8	744.0	742.7	744.0	752.8	754.1	750.3	703.5	694.7	694.7
52.5°	706.1	706.1	707.3	709.8	707.3	706.1	706.1	707.3	665.7	656.8	654.3
55°	664.4	665.7	674.5	677.0	674.5	665.7	664.4	664.4	626.5	617.7	612.6
57.5°	621.4	621.4	627.8	627.8	627.8	621.4	621.4	618.9	582.3	574.7	572.2
60°	572.2	574.7	579.7	578.5	579.7	574.7	572.2	569.7	538.0	533.1	524.2
62.5°	520.4	522.9	524.2	521.7	524.2	522.9	520.4	512.8	493.9	490.0	478.7
65°	466.0	468.6	469.9	467.4	469.9	468.6	466.0	462.3	448.4	442.1	432.0
67.5°	410.5	409.3	408.0	413.0	408.0	409.3	410.5	405.4	396.6	391.6	377.6
70°	353.6	353.6	352.4	355.0	352.4	353.6	353.6	349.9	344.8	341.0	328.4
72.5°	293.0	291.8	296.8	293.0	296.8	291.8	293.0	291.8	289.3	285.5	272.8
75°	233.6	236.2	233.6	237.5	233.6	236.2	233.6	234.9	233.6	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.3	179.3	179.3	171.8
80°	126.3	125.0	125.0	123.8	125.0	125.0	126.3	126.3	127.5	125.0	122.6
82.5°	80.9	79.5	79.5	82.1	79.5	79.5	80.9	82.1	79.5	79.5	79.5
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4
92.5°	56.3	54.1	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4
95°	191.1	184.3	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1
97.5°	441.3	428.4	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7
100°	619.7	604.3	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8
102.5°	772.0	758.8	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3
105°	949.8	942.7	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9
107.5°	1042.2	1044.0	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7
110°	1065.9	1073.3	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1050.8	1062.2	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3
115°	999.6	1015.3	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6
117.5°	928.8	946.2	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7
120°	881.0	898.0	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4
122.5°	833.3	850.1	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1
125°	770.2	785.6	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3
127.5°	719.6	732.6	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2
130°	687.6	699.5	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8
132.5°	660.3	671.0	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3
135°	621.8	631.1	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9
137.5°	593.3	600.8	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5
140°	570.4	577.5	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9
142.5°	554.5	560.6	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4
145°	530.5	535.1	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4
147.5°	510.3	514.1	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3
150°	498.7	501.8	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8
152.5°	489.6	491.9	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8
155°	478.6	480.1	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0
157.5°	469.1	470.2	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2
160°	464.4	465.0	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1
162.5°	459.9	460.5	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2
165°	453.1	453.8	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7
167.5°	450.2	450.5	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8
170°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8
172.5°	447.8	447.6	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5
177.5°	444.0	443.7	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1318.7	1325.0	1328.7	1333.8	1346.4
5°	1268.1	1292.1	1299.8	1318.7	1341.5
7.5°	1157.0	1230.3	1250.4	1296.0	1331.3
10°	1049.6	1122.9	1158.3	1265.6	1318.7
12.5°	995.3	1038.3	1062.3	1212.6	1301.0
15°	961.3	991.6	1009.2	1141.8	1280.8
17.5°	934.7	956.2	968.8	1072.3	1253.0
20°	918.2	928.4	939.7	1021.9	1221.4
22.5°	906.9	900.6	909.4	986.5	1178.5
25°	899.3	875.3	885.4	958.7	1128.0
27.5°	905.6	852.6	856.4	933.4	1074.9
30°	906.9	824.8	826.1	906.9	1015.6
32.5°	898.1	795.8	797.0	874.1	948.5
35°	876.6	761.6	760.4	836.2	857.6
37.5°	847.5	725.0	725.0	794.5	757.8
40°	812.2	688.4	692.1	740.1	669.5
42.5°	769.2	649.2	654.3	668.1	603.8
45°	722.4	611.4	615.1	564.6	553.2
47.5°	670.7	572.2	573.4	468.6	536.8
50°	608.8	531.7	526.8	401.7	535.6
52.5°	554.5	487.6	472.4	363.8	486.3
55°	501.4	440.8	408.0	334.7	450.9
57.5°	454.7	380.2	348.7	300.7	443.4
60°	411.7	320.8	296.8	264.0	406.7
62.5°	376.4	276.7	271.6	238.7	368.8
65°	338.5	246.3	245.0	217.3	313.3
67.5°	301.9	226.1	224.9	197.0	238.7
70°	262.7	204.6	202.1	175.6	176.9
72.5°	222.3	180.6	178.1	157.9	146.6
75°	181.9	152.9	151.5	137.7	118.7
77.5°	142.7	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.5	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	13.1	8.3	7.7	5.4	3.0
92.5°	80.4	57.2	52.1	32.0	11.9
95°	197.9	111.5	102.3	65.4	28.5
97.5°	266.5	122.4	114.2	81.7	49.2
100°	291.5	131.5	124.2	94.6	65.2
102.5°	303.0	140.7	133.8	106.4	78.9
105°	311.5	154.4	148.6	125.2	101.9
107.5°	313.1	174.6	169.1	147.4	125.6
110°	310.7	185.8	181.0	161.3	141.7



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CATALOG NUMBER: SQ4-FA-075U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.8	199.4	194.7	176.1	157.4
115°	313.7	219.9	215.6	198.3	181.1
117.5°	319.5	239.8	235.8	220.2	204.5
120°	324.2	251.3	247.6	232.9	218.2
122.5°	331.0	264.9	261.2	246.4	231.4
125°	340.2	282.4	279.1	265.5	251.9
127.5°	349.4	299.3	295.9	282.2	268.5
130°	356.1	310.6	306.9	292.2	277.4
132.5°	361.6	319.8	316.1	301.3	286.6
135°	367.5	330.4	327.0	313.6	300.2
137.5°	376.4	344.1	340.7	327.4	314.1
140°	381.8	353.2	350.2	337.9	325.7
142.5°	386.3	360.0	357.2	345.9	334.6
145°	392.2	370.4	368.0	358.1	348.2
147.5°	400.9	383.5	381.1	371.4	361.8
150°	405.5	390.3	388.1	379.4	370.7
152.5°	408.5	394.7	393.1	386.5	379.9
155°	415.0	404.5	403.2	398.5	393.6
157.5°	421.5	414.3	413.2	408.4	403.6
160°	424.5	418.7	417.8	414.1	410.4
162.5°	427.6	423.5	422.8	420.1	417.3
165°	432.2	430.3	429.6	427.1	424.7
167.5°	435.7	434.1	433.8	432.6	431.4
170°	438.7	438.6	438.3	437.1	435.9
172.5°	438.9	438.9	438.8	438.6	438.3
175°	440.7	441.6	441.6	441.6	441.6
177.5°	440.9	441.6	441.6	441.6	441.6
180°	441.6	441.6	441.6	441.6	441.6



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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	13.97	14.87	14.88	15.81	17.01	16.76	17.67	17.68	18.60	19.80
	3H	14.45	15.26	15.37	16.20	17.43	18.10	18.91	19.03	19.86	21.08
	4H	14.64	15.41	15.58	16.36	17.59	18.54	19.31	19.48	20.26	21.49
	6H	14.76	15.47	15.72	16.42	17.67	18.82	19.53	19.77	20.48	21.73
	8H	14.76	15.44	15.72	16.41	17.65	18.89	19.57	19.85	20.54	21.78
	12H	14.74	15.38	15.70	16.34	17.61	18.93	19.57	19.89	20.53	21.81
4H	2H	15.00	15.76	15.94	16.71	17.95	17.18	17.95	18.13	18.90	20.13
	3H	16.03	16.67	16.98	17.64	18.89	18.68	19.32	19.64	20.30	21.55
	4H	16.31	16.89	17.27	17.86	19.14	19.20	19.79	20.17	20.76	22.03
	6H	16.43	16.94	17.41	17.93	19.21	19.56	20.07	20.54	21.06	22.33
	8H	16.44	16.91	17.42	17.90	19.19	19.67	20.14	20.65	21.13	22.41
	12H	16.41	16.83	17.41	17.84	19.13	19.72	20.14	20.72	21.15	22.44
8H	4H	16.76	17.23	17.74	18.22	19.50	19.33	19.80	20.31	20.79	22.08
	6H	17.02	17.41	18.03	18.44	19.73	19.76	20.15	20.77	21.18	22.47
	8H	17.06	17.41	18.08	18.43	19.73	19.91	20.25	20.93	21.27	22.57
	12H	17.05	17.35	18.07	18.36	19.71	20.00	20.31	21.02	21.32	22.67
12H	4H	16.76	17.19	17.77	18.19	19.49	19.30	19.72	20.30	20.73	22.02
	6H	17.08	17.42	18.10	18.44	19.75	19.76	20.10	20.78	21.12	22.43
	8H	17.15	17.45	18.17	18.46	19.81	19.92	20.22	20.94	21.23	22.58