

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: P934818

Luminaire Tested: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934818
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

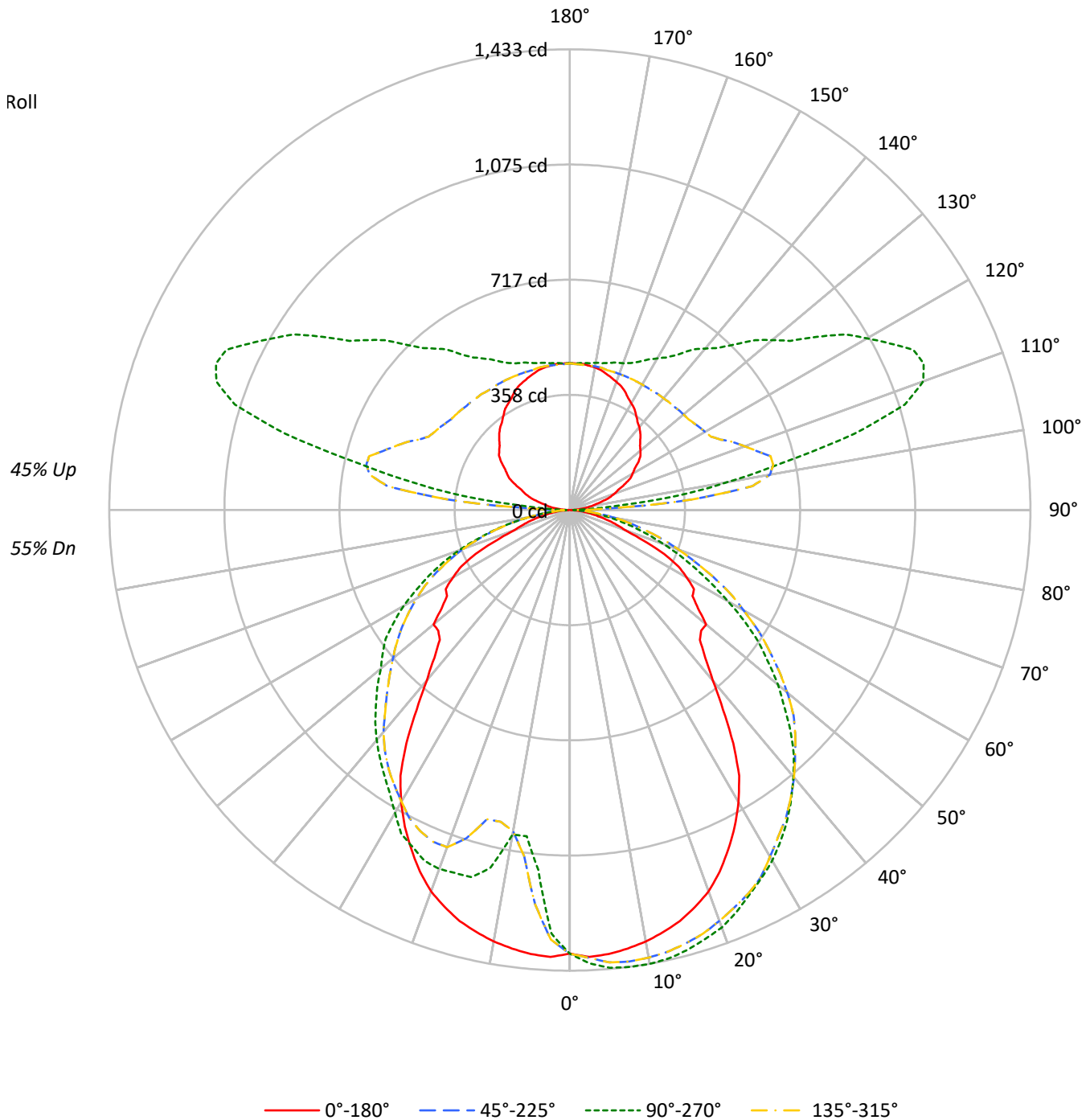
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6537.6 lumens
Efficiency: N/A
Efficacy: 127.7 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°	12803	12803	12803	12803
5°	12886	12924	12886	10162
10°	12784	12731	12784	9103
15°	12631	12455	12631	10400
20°	12353	12129	12353	10422
25°	11797	11652	11797	10201
30°	11086	11256	11086	9717
35°	9867	10756	9867	9184
40°	8209	10167	8209	8780
45°	7321	9477	7321	8318
50°	7759	8655	7759	7854
55°	7279	7769	7279	7585
60°	7476	6597	7476	6946
65°	6748	5454	6748	6097
70°	4641	4347	4641	5110
75°	4024	3212	4024	3847
80°	3178	2124	3178	2312
85°	1722	1125	1722	957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.9
10°-20°	353.6	5.4
20°-30°	546.7	8.4
30°-40°	652.6	10.0
40°-50°	656.4	10.0
50°-60°	571.1	8.7
60°-70°	405.0	6.2
70°-80°	214.2	3.3
80°-90°	55.1	0.8
90°-100°	222.5	3.4
100°-110°	584.8	8.9
110°-120°	606.4	9.3
120°-130°	486.4	7.4
130°-140°	381.7	5.8
140°-150°	292.9	4.5
150°-160°	211.0	3.2
160°-170°	129.1	2.0
170°-180°	43.6	0.7
0°-30°	1024.8	15.7
0°-40°	1677.4	25.7
0°-60°	2905.0	44.4
0°-90°	3579.3	54.7
90°-120°	1413.7	21.6
90°-150°	2574.7	39.4
90°-180°	2958.0	45.2
0°-180°	6537.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1386	1429	1386	1124	1386	132
15°	1324	1416	1324	1183	1324	372
25°	1166	1321	1166	1157	1166	535
35°	886	1179	886	1006	886	548
45°	572	971	572	852	572	458
55°	466	717	466	700	466	428
65°	324	432	324	483	324	309
75°	123	205	123	245	123	129
85°	21	52	21	44	21	28
90°	3	12	3	12	3	3
95°	29	134	29	134	29	33
105°	105	916	105	916	105	112
115°	187	1179	187	1179	187	185
125°	260	939	260	939	260	231
135°	310	729	310	729	310	240
145°	360	591	360	591	360	225
155°	407	509	407	509	407	187
165°	439	474	439	474	439	124
175°	456	459	456	459	456	43
180°	456	456	456	456	456	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1391.5	1391.5	1399.4	1402.0	1402.0	1398.0	1394.2	1398.0	1409.8	1413.7	1412.4
5°	1386.4	1396.7	1411.2	1413.7	1416.3	1415.0	1412.4	1415.0	1428.1	1430.7	1432.0
7.5°	1375.9	1395.5	1413.7	1417.7	1421.5	1417.7	1416.3	1419.0	1432.0	1434.6	1434.6
10°	1362.8	1390.2	1411.2	1413.7	1417.7	1413.7	1413.7	1419.0	1432.0	1434.6	1436.0
12.5°	1344.6	1382.4	1402.0	1404.6	1409.8	1408.5	1407.2	1412.4	1425.5	1428.1	1428.1
15°	1323.6	1368.1	1386.4	1388.9	1398.0	1395.5	1395.5	1400.7	1415.0	1419.0	1417.7
17.5°	1295.0	1349.8	1370.7	1374.6	1381.1	1379.7	1381.1	1386.4	1399.4	1402.0	1403.3
20°	1262.3	1325.0	1349.8	1353.7	1360.2	1360.2	1360.2	1366.7	1379.7	1385.0	1385.0
22.5°	1217.9	1298.8	1325.0	1327.6	1335.4	1335.4	1338.0	1347.1	1358.9	1360.2	1360.2
25°	1165.7	1270.2	1292.3	1300.2	1308.0	1311.9	1315.8	1321.1	1325.0	1323.6	1325.0
27.5°	1110.9	1233.6	1262.3	1267.5	1278.0	1281.9	1287.1	1288.5	1289.7	1293.6	1291.0
30°	1049.6	1182.6	1225.7	1230.9	1247.9	1250.5	1245.4	1247.9	1254.5	1257.1	1259.7
32.5°	980.3	1107.0	1187.9	1199.6	1215.3	1207.4	1206.2	1210.1	1220.6	1220.6	1223.1
35°	886.3	1048.3	1152.7	1163.1	1174.8	1165.7	1170.9	1172.3	1178.8	1182.6	1181.4
37.5°	783.2	997.3	1116.1	1123.9	1133.0	1121.3	1129.2	1133.0	1138.3	1135.7	1135.7
40°	691.9	917.7	1073.1	1078.2	1086.1	1076.9	1084.7	1087.4	1090.0	1087.4	1086.1
42.5°	624.0	830.2	1027.3	1033.8	1028.6	1035.1	1037.8	1043.0	1039.1	1033.8	1033.8
45°	571.8	806.7	977.7	985.5	977.7	988.2	992.1	992.1	980.3	977.7	976.4
47.5°	554.8	759.8	928.1	928.1	924.2	937.2	943.8	934.6	922.9	919.0	919.0
50°	553.5	707.5	860.3	855.0	873.3	889.0	882.5	873.3	864.2	849.8	849.8
52.5°	502.6	643.6	772.8	792.4	821.1	830.2	819.7	810.7	794.9	788.4	783.2
55°	466.0	577.0	693.2	732.3	762.3	774.1	754.5	745.3	721.8	718.0	715.3
57.5°	458.2	480.4	620.1	669.7	706.2	704.9	693.2	676.2	656.6	652.7	651.4
60°	420.3	347.2	541.7	600.5	638.3	634.4	624.0	608.3	590.0	587.5	584.8
62.5°	381.2	251.9	453.0	519.6	573.0	571.8	562.7	539.2	526.1	519.6	514.4
65°	323.8	211.4	322.4	432.1	509.1	511.7	492.1	475.1	460.8	453.0	451.6
67.5°	246.7	172.3	218.0	360.3	447.8	445.1	420.3	412.5	394.2	390.3	382.5
70°	182.8	114.9	151.5	292.4	387.7	381.2	361.6	352.4	335.5	326.3	321.1
72.5°	151.5	92.7	111.0	227.1	326.3	318.5	301.5	291.1	276.7	268.9	263.7
75°	122.7	97.9	84.9	168.4	265.0	259.7	244.1	233.7	221.9	211.4	212.8
77.5°	90.1	91.4	67.9	124.0	210.1	202.3	193.2	180.1	174.9	164.5	164.5
80°	67.9	71.8	50.9	84.9	151.5	151.5	143.6	134.5	125.3	120.1	120.1
82.5°	45.6	45.6	37.8	53.5	103.1	99.2	94.0	91.4	86.2	83.6	83.6
85°	20.8	26.1	23.5	32.6	56.1	58.8	58.8	56.1	54.8	52.2	53.5
87.5°	6.5	11.8	14.3	18.3	28.8	30.0	31.3	31.3	31.3	32.6	32.6
90°	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5	11.7	11.7
92.5°	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5	58.2	55.9
95°	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4	197.5	190.5
97.5°	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2	456.1	442.7
100°	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6	640.4	624.5
102.5°	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0	797.8	784.2
105°	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9	981.6	974.3
107.5°	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3	1077.1	1078.9
110°	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4	1101.6	1109.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8	1086.0	1097.8
115°	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3	1033.1	1049.3
117.5°	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8	959.8	977.8
120°	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0	910.5	928.0
122.5°	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7	861.2	878.5
125°	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7	796.0	811.9
127.5°	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7	743.7	757.1
130°	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8	710.6	722.9
132.5°	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3	682.4	693.5
135°	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5	642.6	652.2
137.5°	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7	613.2	621.0
140°	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2	589.5	596.9
142.5°	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2	573.0	579.4
145°	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6	548.2	553.0
147.5°	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8	527.4	531.3
150°	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8	515.4	518.6
152.5°	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5	506.0	508.3
155°	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9	494.6	496.2
157.5°	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4	484.8	485.9
160°	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2	480.0	480.6
162.5°	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0	475.3	475.9
165°	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4	468.3	469.0
167.5°	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4	465.2	465.5
170°	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4	465.2	465.2
172.5°	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7	462.8	462.6
175°	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4	459.4	459.4
177.5°	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2	458.8	458.5
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1415.0	1411.2	1415.0	1412.4	1413.7	1409.8	1398.0	1394.2	1398.0	1402.0	1402.0
5°	1432.0	1429.4	1432.0	1432.0	1430.7	1428.1	1415.0	1412.4	1415.0	1416.3	1413.7
7.5°	1437.2	1433.3	1437.2	1434.6	1434.6	1432.0	1419.0	1416.3	1417.7	1421.5	1417.7
10°	1437.2	1433.3	1437.2	1436.0	1434.6	1432.0	1419.0	1413.7	1413.7	1417.7	1413.7
12.5°	1430.7	1428.1	1430.7	1428.1	1428.1	1425.5	1412.4	1407.2	1408.5	1409.8	1404.6
15°	1420.2	1416.3	1420.2	1417.7	1419.0	1415.0	1400.7	1395.5	1395.5	1398.0	1388.9
17.5°	1404.6	1399.4	1404.6	1403.3	1402.0	1399.4	1386.4	1381.1	1379.7	1381.1	1374.6
20°	1386.4	1382.4	1386.4	1385.0	1385.0	1379.7	1366.7	1360.2	1360.2	1360.2	1353.7
22.5°	1357.6	1353.7	1357.6	1360.2	1360.2	1358.9	1347.1	1338.0	1335.4	1335.4	1327.6
25°	1325.0	1321.1	1325.0	1325.0	1323.6	1325.0	1321.1	1315.8	1311.9	1308.0	1300.2
27.5°	1293.6	1291.0	1293.6	1291.0	1293.6	1289.7	1288.5	1287.1	1281.9	1278.0	1267.5
30°	1262.3	1259.7	1262.3	1259.7	1257.1	1254.5	1247.9	1245.4	1250.5	1247.9	1230.9
32.5°	1223.1	1220.6	1223.1	1223.1	1220.6	1220.6	1210.1	1206.2	1207.4	1215.3	1199.6
35°	1182.6	1178.8	1182.6	1181.4	1182.6	1178.8	1172.3	1170.9	1165.7	1174.8	1163.1
37.5°	1135.7	1131.8	1135.7	1135.7	1135.7	1138.3	1133.0	1129.2	1121.3	1133.0	1123.9
40°	1087.4	1082.2	1087.4	1086.1	1087.4	1090.0	1087.4	1084.7	1076.9	1086.1	1078.2
42.5°	1032.6	1031.3	1032.6	1033.8	1033.8	1039.1	1043.0	1037.8	1035.1	1028.6	1033.8
45°	973.8	971.2	973.8	976.4	977.7	980.3	992.1	992.1	988.2	977.7	985.5
47.5°	911.1	904.6	911.1	919.0	919.0	922.9	934.6	943.8	937.2	924.2	928.1
50°	844.5	845.9	844.5	849.8	849.8	864.2	873.3	882.5	889.0	873.3	855.0
52.5°	779.3	778.0	779.3	783.2	788.4	794.9	810.7	819.7	830.2	821.1	792.4
55°	714.0	716.7	714.0	715.3	718.0	721.8	745.3	754.5	774.1	762.3	732.3
57.5°	648.8	644.9	648.8	651.4	652.7	656.6	676.2	693.2	704.9	706.2	669.7
60°	573.0	567.8	573.0	584.8	587.5	590.0	608.3	624.0	634.4	638.3	600.5
62.5°	506.4	497.4	506.4	514.4	519.6	526.1	539.2	562.7	571.8	573.0	519.6
65°	436.0	432.1	436.0	451.6	453.0	460.8	475.1	492.1	511.7	509.1	432.1
67.5°	372.1	372.1	372.1	382.5	390.3	394.2	412.5	420.3	445.1	447.8	360.3
70°	313.3	312.0	313.3	321.1	326.3	335.5	352.4	361.6	381.2	387.7	292.4
72.5°	257.2	255.9	257.2	263.7	268.9	276.7	291.1	301.5	318.5	326.3	227.1
75°	207.6	204.9	207.6	212.8	211.4	221.9	233.7	244.1	259.7	265.0	168.4
77.5°	159.3	159.3	159.3	164.5	164.5	174.9	180.1	193.2	202.3	210.1	124.0
80°	118.8	117.5	118.8	120.1	120.1	125.3	134.5	143.6	151.5	151.5	84.9
82.5°	83.6	80.9	83.6	83.6	83.6	86.2	91.4	94.0	99.2	103.1	53.5
85°	52.2	52.2	52.2	53.5	52.2	54.8	56.1	58.8	58.8	56.1	32.6
87.5°	34.0	32.6	34.0	32.6	32.6	31.3	31.3	31.3	30.0	28.8	18.3
90°	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1	13.5	8.6
92.5°	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1	83.1	59.1
95°	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6	204.5	115.2
97.5°	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0	275.5	126.5
100°	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7	301.2	135.9
102.5°	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7	313.1	145.4
105°	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4	321.9	159.6
107.5°	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4	323.6	180.4
110°	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1	321.1	192.1



TEST NUMBER: P934818

CATALOG NUMBER: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6	321.2	206.1
115°	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3	324.2	227.2
117.5°	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0	330.2	247.8
120°	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5	335.0	259.7
122.5°	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1	342.0	273.8
125°	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3	351.6	291.9
127.5°	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2	361.1	309.3
130°	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8	368.0	321.0
132.5°	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3	373.7	330.5
135°	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9	379.8	341.5
137.5°	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5	389.0	355.6
140°	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9	394.6	365.1
142.5°	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5	399.3	372.1
145°	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5	405.4	382.8
147.5°	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5	414.4	396.3
150°	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1	419.1	403.4
152.5°	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0	422.2	407.9
155°	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3	428.9	418.0
157.5°	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6	435.6	428.2
160°	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6	438.7	432.7
162.5°	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7	441.9	437.7
165°	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2	446.7	444.7
167.5°	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5	450.3	448.7
170°	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5	453.4	453.3
172.5°	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2	455.5	456.4
177.5°	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7	455.7	456.4
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934818

CATALOG NUMBER: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1399.4	1391.5	1391.5	1378.5	1373.2	1369.4	1362.8	1343.3	1338.0	1332.8	1340.6
5°	1411.2	1396.7	1386.4	1362.8	1343.3	1335.4	1310.6	1263.7	1232.2	1208.8	1195.8
7.5°	1413.7	1395.5	1375.9	1339.3	1292.3	1271.5	1195.8	1109.6	1086.1	1065.2	1052.1
10°	1411.2	1390.2	1362.8	1308.0	1197.1	1160.5	1084.7	1028.6	1014.3	1010.3	1014.3
12.5°	1402.0	1382.4	1344.6	1253.2	1097.9	1073.1	1028.6	996.0	993.4	1000.0	1035.1
15°	1386.4	1368.1	1323.6	1180.1	1043.0	1024.8	993.4	981.7	996.0	1041.6	1147.5
17.5°	1370.7	1349.8	1295.0	1108.2	1001.2	988.2	966.0	989.5	1070.4	1131.8	1167.0
20°	1349.8	1325.0	1262.3	1056.1	971.2	959.4	949.0	1054.8	1116.1	1138.3	1157.8
22.5°	1325.0	1298.8	1217.9	1019.5	939.9	930.7	937.2	1091.3	1116.1	1131.8	1148.7
25°	1292.3	1270.2	1165.7	990.8	915.1	904.6	929.4	1087.4	1101.7	1105.7	1139.6
27.5°	1262.3	1233.6	1110.9	964.7	885.1	881.1	935.9	1070.4	1080.9	1084.7	1121.3
30°	1225.7	1182.6	1049.6	937.2	853.7	852.4	937.2	1049.6	1046.9	1057.4	1093.9
32.5°	1187.9	1107.0	980.3	903.3	823.7	822.4	928.1	1018.2	1015.6	1030.0	1057.4
35°	1152.7	1048.3	886.3	864.2	785.9	787.1	905.9	981.7	983.0	996.0	1013.0
37.5°	1116.1	997.3	783.2	821.1	749.3	749.3	875.9	947.7	945.1	949.0	972.5
40°	1073.1	917.7	691.9	764.9	715.3	711.5	839.4	911.1	902.0	900.8	933.4
42.5°	1027.3	830.2	624.0	690.5	676.2	671.0	794.9	866.8	849.8	853.7	895.5
45°	977.7	806.7	571.8	583.5	635.7	631.8	746.6	815.9	804.1	814.6	857.7
47.5°	928.1	759.8	554.8	484.3	592.6	591.3	693.2	766.3	759.8	770.1	815.9
50°	860.3	707.5	553.5	415.2	544.4	549.5	629.2	718.0	718.0	727.1	775.4
52.5°	772.8	643.6	502.6	375.9	488.2	503.9	573.0	676.2	678.8	687.9	731.0
55°	693.2	577.0	466.0	345.9	421.7	455.6	518.2	633.1	638.3	647.4	686.7
57.5°	620.1	480.4	458.2	310.7	360.3	392.9	469.9	591.3	594.0	601.8	639.6
60°	541.7	347.2	420.3	272.8	306.8	331.6	425.5	541.7	550.9	556.0	588.7
62.5°	453.0	251.9	381.2	246.7	280.7	285.9	389.0	494.7	506.4	510.4	530.0
65°	322.4	211.4	323.8	224.6	253.2	254.5	349.9	446.5	456.9	463.4	477.8
67.5°	218.0	172.3	246.7	203.6	232.4	233.7	312.0	390.3	404.7	409.9	419.0
70°	151.5	114.9	182.8	181.5	208.9	211.4	271.5	339.4	352.4	356.4	361.6
72.5°	111.0	92.7	151.5	163.2	184.1	186.6	229.7	282.0	295.0	299.0	301.5
75°	84.9	97.9	122.7	142.3	156.6	158.0	188.0	229.7	238.9	241.5	242.8
77.5°	67.9	91.4	90.1	114.9	127.9	125.3	147.5	177.5	185.3	185.3	185.3
80°	50.9	71.8	67.9	82.2	94.0	91.4	105.7	126.7	129.2	131.8	130.5
82.5°	37.8	45.6	45.6	52.2	62.6	60.1	70.4	82.2	82.2	82.2	84.9
85°	23.5	26.1	20.8	27.4	35.3	34.0	39.1	44.4	45.6	45.6	43.1
87.5°	14.3	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5
92.5°	53.8	33.1	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5
95°	105.7	67.6	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4
97.5°	118.1	84.5	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2
100°	128.3	97.8	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6
102.5°	138.3	110.0	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0
105°	153.5	129.4	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9
107.5°	174.8	152.3	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3
110°	187.0	166.7	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4



TEST NUMBER: P934818

CATALOG NUMBER: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	201.3	182.0	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8
115°	222.8	204.9	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3
117.5°	243.7	227.5	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8
120°	255.9	240.7	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0
122.5°	269.9	254.6	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7
125°	288.4	274.4	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7
127.5°	305.8	291.7	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7
130°	317.1	301.9	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8
132.5°	326.6	311.4	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3
135°	338.0	324.1	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5
137.5°	352.1	338.4	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7
140°	361.9	349.3	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2
142.5°	369.1	357.5	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2
145°	380.3	370.1	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6
147.5°	393.8	383.8	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8
150°	401.1	392.1	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8
152.5°	406.3	399.4	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5
155°	416.7	411.8	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9
157.5°	427.0	422.1	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4
160°	431.8	428.0	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2
162.5°	437.0	434.1	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0
165°	444.0	441.4	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4
167.5°	448.4	447.1	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4
170°	453.0	451.7	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4
172.5°	453.5	453.3	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7
175°	456.4	456.4	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4
177.5°	456.4	456.4	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934818
 CATALOG NUMBER: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1331.5	1327.6	1332.8	1318.4	1332.8	1327.6	1331.5	1340.6	1332.8	1338.0	1343.3
5°	1168.3	1161.8	1140.9	1123.9	1140.9	1161.8	1168.3	1195.8	1208.8	1232.2	1263.7
7.5°	1044.3	1039.1	1033.8	1023.4	1033.8	1039.1	1044.3	1052.1	1065.2	1086.1	1109.6
10°	1016.8	1018.2	1026.0	1024.8	1026.0	1018.2	1016.8	1014.3	1010.3	1014.3	1028.6
12.5°	1087.4	1099.2	1142.2	1139.6	1142.2	1099.2	1087.4	1035.1	1000.0	993.4	996.0
15°	1168.3	1172.3	1181.4	1182.6	1181.4	1172.3	1168.3	1147.5	1041.6	996.0	981.7
17.5°	1176.1	1177.5	1184.0	1184.0	1184.0	1177.5	1176.1	1167.0	1131.8	1070.4	989.5
20°	1169.6	1172.3	1185.3	1187.9	1185.3	1172.3	1169.6	1157.8	1138.3	1116.1	1054.8
22.5°	1167.0	1172.3	1182.6	1181.4	1182.6	1172.3	1167.0	1148.7	1131.8	1116.1	1091.3
25°	1154.0	1154.0	1155.3	1156.6	1155.3	1154.0	1154.0	1139.6	1105.7	1101.7	1087.4
27.5°	1126.5	1129.2	1137.0	1135.7	1137.0	1129.2	1126.5	1121.3	1084.7	1080.9	1070.4
30°	1101.7	1099.2	1092.6	1087.4	1092.6	1099.2	1101.7	1093.9	1057.4	1046.9	1049.6
32.5°	1059.9	1053.4	1046.9	1043.0	1046.9	1053.4	1059.9	1057.4	1030.0	1015.6	1018.2
35°	1010.3	1011.7	1010.3	1006.5	1010.3	1011.7	1010.3	1013.0	996.0	983.0	981.7
37.5°	975.2	977.7	976.4	971.2	976.4	977.7	975.2	972.5	949.0	945.1	947.7
40°	938.6	939.9	938.6	934.6	938.6	939.9	938.6	933.4	900.8	902.0	911.1
42.5°	903.3	902.0	898.1	895.5	898.1	902.0	903.3	895.5	853.7	849.8	866.8
45°	862.8	864.2	856.3	852.4	856.3	864.2	862.8	857.7	814.6	804.1	815.9
47.5°	822.4	822.4	815.9	811.9	815.9	822.4	822.4	815.9	770.1	759.8	766.3
50°	779.3	778.0	768.9	767.6	768.9	778.0	779.3	775.4	727.1	718.0	718.0
52.5°	729.7	729.7	731.0	733.6	731.0	729.7	729.7	731.0	687.9	678.8	676.2
55°	686.7	687.9	697.0	699.7	697.0	687.9	686.7	686.7	647.4	638.3	633.1
57.5°	642.2	642.2	648.8	648.8	648.8	642.2	642.2	639.6	601.8	594.0	591.3
60°	591.3	594.0	599.1	597.8	599.1	594.0	591.3	588.7	556.0	550.9	541.7
62.5°	537.8	540.4	541.7	539.2	541.7	540.4	537.8	530.0	510.4	506.4	494.7
65°	481.6	484.3	485.6	483.0	485.6	484.3	481.6	477.8	463.4	456.9	446.5
67.5°	424.2	423.0	421.7	426.8	421.7	423.0	424.2	419.0	409.9	404.7	390.3
70°	365.5	365.5	364.2	366.8	364.2	365.5	365.5	361.6	356.4	352.4	339.4
72.5°	302.8	301.5	306.8	302.8	306.8	301.5	302.8	301.5	299.0	295.0	282.0
75°	241.5	244.1	241.5	245.4	241.5	244.1	241.5	242.8	241.5	238.9	229.7
77.5°	184.1	186.6	184.1	184.1	184.1	186.6	184.1	185.3	185.3	185.3	177.5
80°	130.5	129.2	129.2	127.9	129.2	129.2	130.5	130.5	131.8	129.2	126.7
82.5°	83.6	82.2	82.2	84.9	82.2	82.2	83.6	84.9	82.2	82.2	82.2
85°	45.6	47.0	44.4	44.4	44.4	47.0	45.6	43.1	45.6	45.6	44.4
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.3	18.3	18.3	19.6
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1
92.5°	58.2	55.9	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1
95°	197.5	190.5	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6
97.5°	456.1	442.7	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0
100°	640.4	624.5	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7
102.5°	797.8	784.2	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7
105°	981.6	974.3	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4
107.5°	1077.1	1078.9	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4
110°	1101.6	1109.2	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1086.0	1097.8	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6
115°	1033.1	1049.3	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3
117.5°	959.8	977.8	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0
120°	910.5	928.0	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5
122.5°	861.2	878.5	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1
125°	796.0	811.9	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3
127.5°	743.7	757.1	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2
130°	710.6	722.9	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8
132.5°	682.4	693.5	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3
135°	642.6	652.2	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9
137.5°	613.2	621.0	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5
140°	589.5	596.9	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9
142.5°	573.0	579.4	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5
145°	548.2	553.0	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5
147.5°	527.4	531.3	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5
150°	515.4	518.6	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1
152.5°	506.0	508.3	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0
155°	494.6	496.2	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3
157.5°	484.8	485.9	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6
160°	480.0	480.6	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6
162.5°	475.3	475.9	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7
165°	468.3	469.0	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2
167.5°	465.2	465.5	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5
170°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5
172.5°	462.8	462.6	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2
177.5°	458.8	458.5	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1362.8	1369.4	1373.2	1378.5	1391.5
5°	1310.6	1335.4	1343.3	1362.8	1386.4
7.5°	1195.8	1271.5	1292.3	1339.3	1375.9
10°	1084.7	1160.5	1197.1	1308.0	1362.8
12.5°	1028.6	1073.1	1097.9	1253.2	1344.6
15°	993.4	1024.8	1043.0	1180.1	1323.6
17.5°	966.0	988.2	1001.2	1108.2	1295.0
20°	949.0	959.4	971.2	1056.1	1262.3
22.5°	937.2	930.7	939.9	1019.5	1217.9
25°	929.4	904.6	915.1	990.8	1165.7
27.5°	935.9	881.1	885.1	964.7	1110.9
30°	937.2	852.4	853.7	937.2	1049.6
32.5°	928.1	822.4	823.7	903.3	980.3
35°	905.9	787.1	785.9	864.2	886.3
37.5°	875.9	749.3	749.3	821.1	783.2
40°	839.4	711.5	715.3	764.9	691.9
42.5°	794.9	671.0	676.2	690.5	624.0
45°	746.6	631.8	635.7	583.5	571.8
47.5°	693.2	591.3	592.6	484.3	554.8
50°	629.2	549.5	544.4	415.2	553.5
52.5°	573.0	503.9	488.2	375.9	502.6
55°	518.2	455.6	421.7	345.9	466.0
57.5°	469.9	392.9	360.3	310.7	458.2
60°	425.5	331.6	306.8	272.8	420.3
62.5°	389.0	285.9	280.7	246.7	381.2
65°	349.9	254.5	253.2	224.6	323.8
67.5°	312.0	233.7	232.4	203.6	246.7
70°	271.5	211.4	208.9	181.5	182.8
72.5°	229.7	186.6	184.1	163.2	151.5
75°	188.0	158.0	156.6	142.3	122.7
77.5°	147.5	125.3	127.9	114.9	90.1
80°	105.7	91.4	94.0	82.2	67.9
82.5°	70.4	60.1	62.6	52.2	45.6
85°	39.1	34.0	35.3	27.4	20.8
87.5°	18.3	15.7	15.7	10.5	6.5
90°	13.5	8.6	8.0	5.5	3.1
92.5°	83.1	59.1	53.8	33.1	12.3
95°	204.5	115.2	105.7	67.6	29.4
97.5°	275.5	126.5	118.1	84.5	50.9
100°	301.2	135.9	128.3	97.8	67.4
102.5°	313.1	145.4	138.3	110.0	81.5
105°	321.9	159.6	153.5	129.4	105.3
107.5°	323.6	180.4	174.8	152.3	129.8
110°	321.1	192.1	187.0	166.7	146.4



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CATALOG NUMBER: SQ4-FA-075U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	321.2	206.1	201.3	182.0	162.6
115°	324.2	227.2	222.8	204.9	187.1
117.5°	330.2	247.8	243.7	227.5	211.3
120°	335.0	259.7	255.9	240.7	225.5
122.5°	342.0	273.8	269.9	254.6	239.2
125°	351.6	291.9	288.4	274.4	260.3
127.5°	361.1	309.3	305.8	291.7	277.5
130°	368.0	321.0	317.1	301.9	286.7
132.5°	373.7	330.5	326.6	311.4	296.2
135°	379.8	341.5	338.0	324.1	310.2
137.5°	389.0	355.6	352.1	338.4	324.7
140°	394.6	365.1	361.9	349.3	336.6
142.5°	399.3	372.1	369.1	357.5	345.8
145°	405.4	382.8	380.3	370.1	359.8
147.5°	414.4	396.3	393.8	383.8	374.0
150°	419.1	403.4	401.1	392.1	383.1
152.5°	422.2	407.9	406.3	399.4	392.6
155°	428.9	418.0	416.7	411.8	406.8
157.5°	435.6	428.2	427.0	422.1	417.1
160°	438.7	432.7	431.8	428.0	424.1
162.5°	441.9	437.7	437.0	434.1	431.3
165°	446.7	444.7	444.0	441.4	438.9
167.5°	450.3	448.7	448.4	447.1	445.9
170°	453.4	453.3	453.0	451.7	450.5
172.5°	453.6	453.6	453.5	453.3	453.0
175°	455.5	456.4	456.4	456.4	456.4
177.5°	455.7	456.4	456.4	456.4	456.4
180°	456.4	456.4	456.4	456.4	456.4



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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	14.08	14.99	15.00	15.92	17.12	16.88	17.78	17.79	18.72	19.92
	3H	14.56	15.37	15.49	16.32	17.54	18.22	19.03	19.14	19.97	21.20
	4H	14.75	15.52	15.70	16.47	17.71	18.66	19.42	19.60	20.37	21.61
	6H	14.88	15.58	15.83	16.54	17.79	18.94	19.64	19.89	20.60	21.85
	8H	14.88	15.55	15.84	16.52	17.77	19.01	19.68	19.97	20.65	21.90
	12H	14.85	15.49	15.82	16.46	17.73	19.04	19.68	20.01	20.65	21.92
4H	2H	15.11	15.88	16.06	16.83	18.06	17.29	18.06	18.24	19.01	20.24
	3H	16.14	16.78	17.10	17.76	19.01	18.79	19.43	19.75	20.41	21.66
	4H	16.42	17.00	17.39	17.98	19.25	19.32	19.90	20.28	20.87	22.15
	6H	16.55	17.05	17.53	18.05	19.32	19.68	20.18	20.66	21.18	22.45
	8H	16.55	17.02	17.54	18.01	19.30	19.78	20.25	20.76	21.24	22.53
	12H	16.52	16.95	17.52	17.95	19.25	19.83	20.26	20.84	21.26	22.56
8H	4H	16.87	17.34	17.85	18.33	19.62	19.45	19.92	20.43	20.91	22.19
	6H	17.14	17.52	18.14	18.55	19.84	19.88	20.27	20.88	21.30	22.58
	8H	17.18	17.52	18.19	18.54	19.84	20.02	20.37	21.04	21.39	22.69
	12H	17.16	17.47	18.18	18.48	19.83	20.12	20.42	21.14	21.43	22.78
12H	4H	16.88	17.30	17.88	18.31	19.60	19.41	19.84	20.41	20.84	22.14
	6H	17.19	17.54	18.21	18.56	19.86	19.87	20.22	20.89	21.24	22.54
	8H	17.26	17.56	18.28	18.58	19.93	20.03	20.33	21.05	21.35	22.70