

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: P934018

Luminaire Tested: SQ4-FA-025U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934018
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

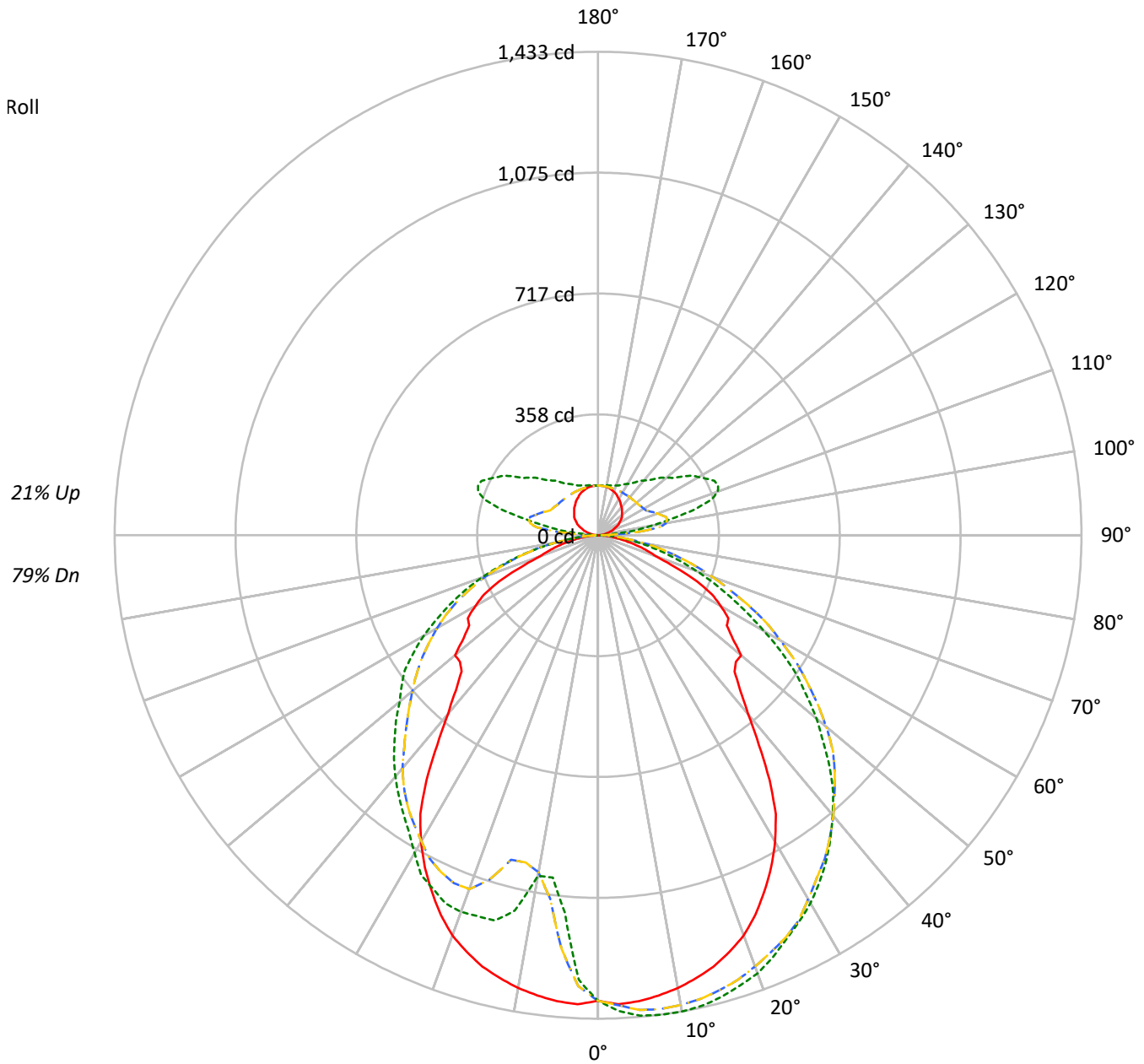
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4533.9 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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	2.7
10°-20°	353.6	7.8
20°-30°	546.7	12.1
30°-40°	652.6	14.4
40°-50°	656.4	14.5
50°-60°	571.1	12.6
60°-70°	405.0	8.9
70°-80°	214.2	4.7
80°-90°	53.9	1.2
90°-100°	71.9	1.6
100°-110°	189.0	4.2
110°-120°	195.9	4.3
120°-130°	157.1	3.5
130°-140°	123.3	2.7
140°-150°	94.6	2.1
150°-160°	68.2	1.5
160°-170°	41.7	0.9
170°-180°	14.1	0.3
0°-30°	1024.8	22.6
0°-40°	1677.4	37.0
0°-60°	2905.0	64.1
0°-90°	3578.1	78.9
90°-120°	456.8	10.1
90°-150°	831.9	18.3
90°-180°	956.0	21.1
0°-180°	4533.9	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°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	296	34	296	34	36
115°	60	381	60	381	60	60
125°	84	303	84	303	84	75
135°	100	235	100	235	100	78
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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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°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.8	3.8
92.5°	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7	18.8	18.0
95°	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8	63.8	61.6
97.5°	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0	147.3	143.0
100°	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0	206.9	201.7
102.5°	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7	257.8	253.3
105°	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1	317.1	314.8
107.5°	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7	348.1	348.7
110°	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7	356.0	358.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3	350.9	354.7
115°	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3	333.7	339.0
117.5°	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0	310.1	316.0
120°	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5	294.2	299.9
122.5°	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0	278.2	283.8
125°	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2	257.2	262.3
127.5°	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2	240.3	244.6
130°	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8	229.6	233.6
132.5°	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5	220.5	224.1
135°	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5	207.6	210.6
137.5°	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1	198.1	200.7
140°	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9	190.5	192.9
142.5°	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3	185.2	187.2
145°	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6	177.1	178.7
147.5°	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1	170.4	171.7
150°	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6	166.6	167.6
152.5°	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5	163.5	164.3
155°	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1	159.9	160.4
157.5°	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9	156.6	157.0
160°	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9	155.0	155.2
162.5°	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9	153.5	153.7
165°	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4	151.3	151.5
167.5°	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0	150.3	150.4
170°	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0	150.3	150.3
172.5°	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5	149.5	149.4
175°	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8	148.4	148.4
177.5°	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7	148.2	148.1
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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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°	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2	26.9	19.1
95°	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5	66.1	37.2
97.5°	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1	89.0	40.9
100°	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6	97.3	44.0
102.5°	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4	101.2	47.0
105°	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9	104.0	51.6
107.5°	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2	104.5	58.3
110°	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4	103.7	62.0



TEST NUMBER: P934018

CATALOG NUMBER: SQ4-FA-025U-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°	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3	103.7	66.6
115°	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5	104.7	73.4
117.5°	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2	106.7	80.0
120°	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7	108.2	83.9
122.5°	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9	110.5	88.4
125°	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3	113.6	94.4
127.5°	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9	116.7	100.0
130°	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2	119.0	103.7
132.5°	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3	120.7	106.8
135°	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2	122.7	110.4
137.5°	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0	125.7	114.9
140°	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2	127.5	118.0
142.5°	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7	129.0	120.2
145°	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7	131.0	123.7
147.5°	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7	133.9	128.0
150°	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2	135.4	130.3
152.5°	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5	136.3	131.8
155°	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2	138.5	135.1
157.5°	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0	140.7	138.3
160°	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2	141.7	139.8
162.5°	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6	142.8	141.4
165°	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1	144.2	143.7
167.5°	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1	145.4	144.9
170°	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5	146.4	146.4
172.5°	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7	147.1	147.4
177.5°	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9	147.2	147.4
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P934018

CATALOG NUMBER: SQ4-FA-025U-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.7	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7
95°	34.2	21.8	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8
97.5°	38.1	27.3	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0
100°	41.5	31.6	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0
102.5°	44.8	35.5	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7
105°	49.6	41.9	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1
107.5°	56.5	49.2	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7
110°	60.4	53.8	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7



TEST NUMBER: P934018

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.0	58.8	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3
115°	71.9	66.2	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3
117.5°	78.7	73.5	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0
120°	82.7	77.8	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5
122.5°	87.1	82.2	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0
125°	93.2	88.6	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2
127.5°	98.8	94.3	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2
130°	102.5	97.5	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8
132.5°	105.6	100.7	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5
135°	109.3	104.7	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5
137.5°	113.8	109.4	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1
140°	117.0	112.8	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9
142.5°	119.3	115.5	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3
145°	122.9	119.5	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6
147.5°	127.3	124.0	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1
150°	129.6	126.7	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6
152.5°	131.2	129.0	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5
155°	134.7	133.0	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1
157.5°	137.9	136.3	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9
160°	139.5	138.2	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9
162.5°	141.2	140.2	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9
165°	143.5	142.6	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4
167.5°	144.8	144.4	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0
170°	146.3	145.9	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0
172.5°	146.5	146.4	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5
175°	147.4	147.4	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8
177.5°	147.4	147.4	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P934018
 CATALOG NUMBER: SQ4-FA-025U-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4
92.5°	18.8	18.0	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2
95°	63.8	61.6	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5
97.5°	147.3	143.0	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1
100°	206.9	201.7	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6
102.5°	257.8	253.3	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4
105°	317.1	314.8	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9
107.5°	348.1	348.7	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2
110°	356.0	358.4	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	350.9	354.7	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3
115°	333.7	339.0	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5
117.5°	310.1	316.0	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2
120°	294.2	299.9	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7
122.5°	278.2	283.8	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9
125°	257.2	262.3	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3
127.5°	240.3	244.6	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9
130°	229.6	233.6	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2
132.5°	220.5	224.1	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3
135°	207.6	210.6	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2
137.5°	198.1	200.7	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0
140°	190.5	192.9	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2
142.5°	185.2	187.2	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7
145°	177.1	178.7	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7
147.5°	170.4	171.7	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7
150°	166.6	167.6	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2
152.5°	163.5	164.3	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5
155°	159.9	160.4	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2
157.5°	156.6	157.0	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0
160°	155.0	155.2	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2
162.5°	153.5	153.7	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6
165°	151.3	151.5	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1
167.5°	150.3	150.4	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1
170°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5
172.5°	149.5	149.4	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7
177.5°	148.2	148.1	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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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°	4.3	2.8	2.6	1.8	1.0
92.5°	26.9	19.1	17.4	10.7	4.0
95°	66.1	37.2	34.2	21.8	9.5
97.5°	89.0	40.9	38.1	27.3	16.4
100°	97.3	44.0	41.5	31.6	21.7
102.5°	101.2	47.0	44.8	35.5	26.3
105°	104.0	51.6	49.6	41.9	34.1
107.5°	104.5	58.3	56.5	49.2	42.0
110°	103.7	62.0	60.4	53.8	47.3



TEST NUMBER: P934018

CATALOG NUMBER: SQ4-FA-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	103.7	66.6	65.0	58.8	52.6
115°	104.7	73.4	71.9	66.2	60.5
117.5°	106.7	80.0	78.7	73.5	68.3
120°	108.2	83.9	82.7	77.8	72.8
122.5°	110.5	88.4	87.1	82.2	77.3
125°	113.6	94.4	93.2	88.6	84.1
127.5°	116.7	100.0	98.8	94.3	89.6
130°	119.0	103.7	102.5	97.5	92.6
132.5°	120.7	106.8	105.6	100.7	95.7
135°	122.7	110.4	109.3	104.7	100.3
137.5°	125.7	114.9	113.8	109.4	104.9
140°	127.5	118.0	117.0	112.8	108.8
142.5°	129.0	120.2	119.3	115.5	111.7
145°	131.0	123.7	122.9	119.5	116.3
147.5°	133.9	128.0	127.3	124.0	120.8
150°	135.4	130.3	129.6	126.7	123.8
152.5°	136.3	131.8	131.2	129.0	126.9
155°	138.5	135.1	134.7	133.0	131.4
157.5°	140.7	138.3	137.9	136.3	134.8
160°	141.7	139.8	139.5	138.2	137.0
162.5°	142.8	141.4	141.2	140.2	139.3
165°	144.2	143.7	143.5	142.6	141.8
167.5°	145.4	144.9	144.8	144.4	144.1
170°	146.4	146.4	146.3	145.9	145.5
172.5°	146.5	146.5	146.5	146.4	146.3
175°	147.1	147.4	147.4	147.4	147.4
177.5°	147.2	147.4	147.4	147.4	147.4
180°	147.4	147.4	147.4	147.4	147.4



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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	15.99	17.19	16.65	17.86	18.65	18.78	19.98	19.45	20.66	21.45
	3H	16.49	17.57	17.16	18.25	19.08	20.14	21.22	20.82	21.91	22.73
	4H	16.70	17.71	17.39	18.41	19.25	20.60	21.61	21.29	22.31	23.15
	6H	16.83	17.77	17.54	18.48	19.33	20.89	21.83	21.60	22.54	23.39
	8H	16.84	17.74	17.56	18.47	19.32	20.97	21.87	21.69	22.60	23.45
	12H	16.82	17.68	17.55	18.40	19.28	21.02	21.87	21.74	22.59	23.47
4H	2H	17.05	18.07	17.75	18.77	19.60	19.24	20.25	19.93	20.95	21.79
	3H	18.11	18.96	18.82	19.69	20.55	20.76	21.61	21.47	22.35	23.20
	4H	18.40	19.17	19.13	19.91	20.79	21.30	22.07	22.02	22.80	23.69
	6H	18.54	19.21	19.29	19.97	20.87	21.67	22.34	22.42	23.10	24.00
	8H	18.56	19.18	19.31	19.94	20.84	21.78	22.41	22.53	23.17	24.07
	12H	18.54	19.10	19.31	19.88	20.79	21.85	22.41	22.62	23.20	24.10
8H	4H	18.87	19.50	19.63	20.26	21.16	21.45	22.07	22.20	22.83	23.74
	6H	19.15	19.67	19.93	20.47	21.37	21.89	22.41	22.67	23.21	24.12
	8H	19.20	19.66	19.99	20.46	21.38	22.04	22.50	22.84	23.30	24.23
	12H	19.20	19.60	19.99	20.39	21.37	22.15	22.56	22.94	23.35	24.33
12H	4H	18.90	19.46	19.67	20.24	21.15	21.43	21.99	22.20	22.77	23.68
	6H	19.21	19.67	20.00	20.48	21.40	21.89	22.35	22.68	23.16	24.08
	8H	19.29	19.70	20.09	20.49	21.47	22.06	22.47	22.86	23.26	24.24