

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: P933971

Luminaire Tested: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933971
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

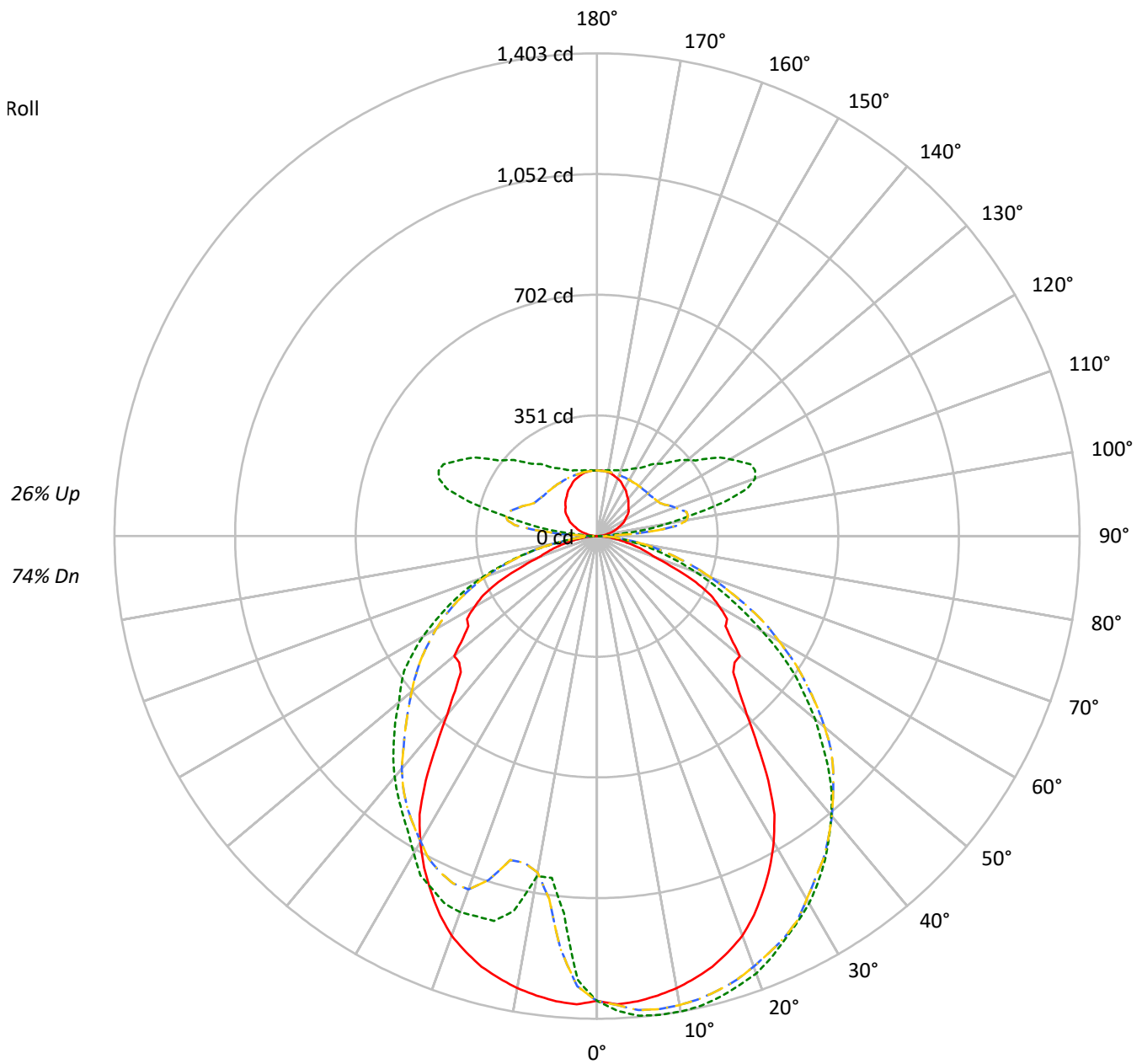
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
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	
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74				
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33				
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8356	8356	8356	8356
5°	8416	8435	8416	6633
10°	8356	8309	8356	5940
15°	8263	8129	8263	6788
20°	8086	7916	8086	6802
25°	7730	7605	7730	6658
30°	7270	7347	7270	6342
35°	6478	7020	6478	5994
40°	5394	6636	5394	5731
45°	4817	6185	4817	5429
50°	5114	5648	5114	5126
55°	4806	5070	4806	4950
60°	4948	4306	4948	4534
65°	4479	3560	4479	3979
70°	3094	2836	3094	3335
75°	2702	2097	2702	2511
80°	2164	1386	2164	1509
85°	1216	734	1216	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	2.6
10°-20°	346.2	7.3
20°-30°	535.2	11.3
30°-40°	638.9	13.5
40°-50°	642.6	13.6
50°-60°	559.2	11.8
60°-70°	396.5	8.4
70°-80°	209.8	4.4
80°-90°	53.0	1.1
90°-100°	93.0	2.0
100°-110°	244.4	5.2
110°-120°	253.4	5.3
120°-130°	203.3	4.3
130°-140°	159.5	3.4
140°-150°	122.4	2.6
150°-160°	88.2	1.9
160°-170°	53.9	1.1
170°-180°	18.2	0.4
0°-30°	1003.3	21.2
0°-40°	1642.2	34.6
0°-60°	2844.1	60.0
0°-90°	3503.2	73.9
90°-120°	590.8	12.5
90°-150°	1076.0	22.7
90°-180°	1236.0	26.1
0°-180°	4739.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1351	1351	1351	1351	1351	
5°	1357	1399	1357	1100	1357	129
15°	1296	1387	1296	1158	1296	365
25°	1141	1293	1141	1132	1141	524
35°	868	1154	868	985	868	537
45°	560	951	560	834	560	448
55°	456	702	456	685	456	419
65°	317	423	317	473	317	303
75°	120	201	120	240	120	126
85°	20	51	20	44	20	28
90°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	383	44	383	44	47
115°	78	493	78	493	78	77
125°	109	392	109	392	109	97
135°	130	304	130	304	130	100
145°	150	247	150	247	150	94
155°	170	213	170	213	170	78
165°	183	198	183	198	183	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1362.3	1362.3	1370.0	1372.6	1372.6	1368.7	1364.9	1368.7	1380.2	1384.1	1382.8
5°	1357.2	1367.5	1381.5	1384.1	1386.6	1385.4	1382.8	1385.4	1398.1	1400.7	1402.0
7.5°	1347.0	1366.2	1384.1	1387.9	1391.7	1387.9	1386.6	1389.2	1402.0	1404.5	1404.5
10°	1334.2	1361.1	1381.5	1384.1	1387.9	1384.1	1384.1	1389.2	1402.0	1404.5	1405.8
12.5°	1316.3	1353.4	1372.6	1375.1	1380.2	1379.0	1377.7	1382.8	1395.6	1398.1	1398.1
15°	1295.9	1339.3	1357.2	1359.8	1368.7	1366.2	1366.2	1371.3	1385.4	1389.2	1387.9
17.5°	1267.8	1321.5	1341.9	1345.7	1352.1	1350.8	1352.1	1357.2	1370.0	1372.6	1373.8
20°	1235.8	1297.2	1321.5	1325.3	1331.7	1331.7	1331.7	1338.1	1350.8	1356.0	1356.0
22.5°	1192.4	1271.6	1297.2	1299.7	1307.4	1307.4	1310.0	1318.9	1330.4	1331.7	1331.7
25°	1141.3	1243.5	1265.2	1272.9	1280.6	1284.4	1288.2	1293.3	1297.2	1295.9	1297.2
27.5°	1087.6	1207.7	1235.8	1240.9	1251.2	1255.0	1260.1	1261.4	1262.7	1266.5	1263.9
30°	1027.5	1157.9	1200.0	1205.2	1221.8	1224.3	1219.2	1221.8	1228.2	1230.7	1233.3
32.5°	959.8	1083.7	1163.0	1174.5	1189.8	1182.1	1180.9	1184.7	1194.9	1194.9	1197.5
35°	867.8	1026.2	1128.5	1138.7	1150.2	1141.3	1146.4	1147.6	1154.0	1157.9	1156.6
37.5°	766.8	976.4	1092.7	1100.4	1109.3	1097.8	1105.5	1109.3	1114.4	1111.9	1111.9
40°	677.3	898.4	1050.5	1055.6	1063.3	1054.4	1062.0	1064.6	1067.1	1064.6	1063.3
42.5°	610.9	812.8	1005.8	1012.2	1007.1	1013.5	1016.0	1021.1	1017.3	1012.2	1012.2
45°	559.8	789.8	957.2	964.9	957.2	967.4	971.3	971.3	959.8	957.2	955.9
47.5°	543.2	743.8	908.7	908.7	904.8	917.6	924.0	915.0	903.5	899.7	899.7
50°	541.9	692.7	842.2	837.1	855.0	870.3	863.9	855.0	846.0	832.0	832.0
52.5°	492.0	630.1	756.6	775.7	803.9	812.8	802.6	793.6	778.3	771.9	766.8
55°	456.2	564.9	678.6	717.0	746.4	757.9	738.7	729.7	706.7	702.9	700.3
57.5°	448.6	470.3	607.0	655.6	691.4	690.1	678.6	662.0	642.8	639.0	637.7
60°	411.5	339.9	530.4	587.9	624.9	621.1	610.9	595.5	577.7	575.1	572.5
62.5°	373.2	246.7	443.5	508.6	561.0	559.8	550.8	527.8	515.0	508.6	503.5
65°	316.9	207.0	315.7	423.0	498.4	501.0	481.8	465.2	451.1	443.5	442.2
67.5°	241.5	168.7	213.4	352.7	438.4	435.8	411.5	403.8	386.0	382.1	374.5
70°	178.9	112.5	148.2	286.3	379.6	373.2	354.0	345.1	328.4	319.5	314.4
72.5°	148.2	90.7	108.6	222.4	319.5	311.8	295.2	285.0	270.9	263.3	258.2
75°	120.1	95.8	83.1	164.9	259.4	254.3	239.0	228.8	217.3	207.0	208.3
77.5°	88.2	89.5	66.5	121.4	205.8	198.1	189.1	176.4	171.3	161.0	161.0
80°	66.5	70.3	49.8	83.1	148.2	148.2	140.6	131.6	122.7	117.6	117.6
82.5°	44.7	44.7	37.1	52.4	101.0	97.1	92.0	89.5	84.3	81.8	81.8
85°	20.4	25.6	23.0	32.0	55.0	57.5	57.5	55.0	53.7	51.1	52.4
87.5°	6.4	11.5	14.1	17.9	28.1	29.4	30.7	30.7	30.7	32.0	32.0
90°	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4	24.3	23.3
95°	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4	82.6	79.7
97.5°	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0	190.6	185.1
100°	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4	267.6	261.0
102.5°	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6	333.5	327.8
105°	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5	410.2	407.2
107.5°	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1	450.2	451.0
110°	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7	460.4	463.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4	453.9	458.7
115°	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0	431.7	438.5
117.5°	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4	401.1	408.6
120°	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4	380.6	387.9
122.5°	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6	360.0	367.2
125°	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5	332.7	339.4
127.5°	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0	310.8	316.4
130°	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3	296.9	302.1
132.5°	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2	285.2	289.8
135°	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6	268.6	272.6
137.5°	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4	256.3	259.5
140°	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5	246.4	249.5
142.5°	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9	239.5	242.1
145°	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5	229.1	231.1
147.5°	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7	220.4	222.0
150°	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4	215.4	216.7
152.5°	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7	211.5	212.5
155°	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6	206.7	207.4
157.5°	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8	202.6	203.1
160°	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5	200.6	200.8
162.5°	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2	198.7	198.9
165°	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2	195.7	196.0
167.5°	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8	194.4	194.5
170°	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8	194.4	194.4
172.5°	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1	193.4	193.3
175°	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2	192.0	192.0
177.5°	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1	191.8	191.7
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1385.4	1381.5	1385.4	1382.8	1384.1	1380.2	1368.7	1364.9	1368.7	1372.6	1372.6
5°	1402.0	1399.4	1402.0	1402.0	1400.7	1398.1	1385.4	1382.8	1385.4	1386.6	1384.1
7.5°	1407.1	1403.2	1407.1	1404.5	1404.5	1402.0	1389.2	1386.6	1387.9	1391.7	1387.9
10°	1407.1	1403.2	1407.1	1405.8	1404.5	1402.0	1389.2	1384.1	1384.1	1387.9	1384.1
12.5°	1400.7	1398.1	1400.7	1398.1	1398.1	1395.6	1382.8	1377.7	1379.0	1380.2	1375.1
15°	1390.5	1386.6	1390.5	1387.9	1389.2	1385.4	1371.3	1366.2	1366.2	1368.7	1359.8
17.5°	1375.1	1370.0	1375.1	1373.8	1372.6	1370.0	1357.2	1352.1	1350.8	1352.1	1345.7
20°	1357.2	1353.4	1357.2	1356.0	1356.0	1350.8	1338.1	1331.7	1331.7	1331.7	1325.3
22.5°	1329.1	1325.3	1329.1	1331.7	1331.7	1330.4	1318.9	1310.0	1307.4	1307.4	1299.7
25°	1297.2	1293.3	1297.2	1297.2	1295.9	1297.2	1293.3	1288.2	1284.4	1280.6	1272.9
27.5°	1266.5	1263.9	1266.5	1263.9	1266.5	1262.7	1261.4	1260.1	1255.0	1251.2	1240.9
30°	1235.8	1233.3	1235.8	1233.3	1230.7	1228.2	1221.8	1219.2	1224.3	1221.8	1205.2
32.5°	1197.5	1194.9	1197.5	1197.5	1194.9	1194.9	1184.7	1180.9	1182.1	1189.8	1174.5
35°	1157.9	1154.0	1157.9	1156.6	1157.9	1154.0	1147.6	1146.4	1141.3	1150.2	1138.7
37.5°	1111.9	1108.0	1111.9	1111.9	1111.9	1114.4	1109.3	1105.5	1097.8	1109.3	1100.4
40°	1064.6	1059.5	1064.6	1063.3	1064.6	1067.1	1064.6	1062.0	1054.4	1063.3	1055.6
42.5°	1010.9	1009.6	1010.9	1012.2	1012.2	1017.3	1021.1	1016.0	1013.5	1007.1	1012.2
45°	953.4	950.8	953.4	955.9	957.2	959.8	971.3	971.3	967.4	957.2	964.9
47.5°	892.0	885.7	892.0	899.7	899.7	903.5	915.0	924.0	917.6	904.8	908.7
50°	826.9	828.1	826.9	832.0	832.0	846.0	855.0	863.9	870.3	855.0	837.1
52.5°	763.0	761.7	763.0	766.8	771.9	778.3	793.6	802.6	812.8	803.9	775.7
55°	699.1	701.6	699.1	700.3	702.9	706.7	729.7	738.7	757.9	746.4	717.0
57.5°	635.2	631.3	635.2	637.7	639.0	642.8	662.0	678.6	690.1	691.4	655.6
60°	561.0	555.9	561.0	572.5	575.1	577.7	595.5	610.9	621.1	624.9	587.9
62.5°	495.9	486.9	495.9	503.5	508.6	515.0	527.8	550.8	559.8	561.0	508.6
65°	426.9	423.0	426.9	442.2	443.5	451.1	465.2	481.8	501.0	498.4	423.0
67.5°	364.2	364.2	364.2	374.5	382.1	386.0	403.8	411.5	435.8	438.4	352.7
70°	306.7	305.4	306.7	314.4	319.5	328.4	345.1	354.0	373.2	379.6	286.3
72.5°	251.8	250.5	251.8	258.2	263.3	270.9	285.0	295.2	311.8	319.5	222.4
75°	203.2	200.6	203.2	208.3	207.0	217.3	228.8	239.0	254.3	259.4	164.9
77.5°	155.9	155.9	155.9	161.0	161.0	171.3	176.4	189.1	198.1	205.8	121.4
80°	116.3	115.0	116.3	117.6	117.6	122.7	131.6	140.6	148.2	148.2	83.1
82.5°	81.8	79.2	81.8	81.8	81.8	84.3	89.5	92.0	97.1	101.0	52.4
85°	51.1	51.1	51.1	52.4	51.1	53.7	55.0	57.5	57.5	55.0	32.0
87.5°	33.2	32.0	33.2	32.0	32.0	30.7	30.7	30.7	29.4	28.1	17.9
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3	5.6	3.6
92.5°	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1	34.8	24.7
95°	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2	85.5	48.1
97.5°	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1	115.1	52.8
100°	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0	125.9	56.8
102.5°	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2	130.9	60.8
105°	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9	134.5	66.7
107.5°	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0	135.2	75.4
110°	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1	134.2	80.3



TEST NUMBER: P933971

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3	134.2	86.1
115°	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4	135.5	95.0
117.5°	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9	137.9	103.5
120°	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1	140.1	108.5
122.5°	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0	143.0	114.4
125°	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3	147.0	122.0
127.5°	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8	150.9	129.2
130°	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0	153.8	134.1
132.5°	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3	156.2	138.1
135°	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1	158.7	142.7
137.5°	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2	162.6	148.6
140°	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4	164.9	152.6
142.5°	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0	166.8	155.5
145°	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0	169.5	160.0
147.5°	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3	173.2	165.6
150°	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9	175.2	168.6
152.5°	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4	176.4	170.5
155°	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3	179.3	174.7
157.5°	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2	182.1	178.9
160°	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7	183.4	180.9
162.5°	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1	184.7	182.9
165°	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8	186.7	185.8
167.5°	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1	188.2	187.5
170°	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6	189.5	189.4
172.5°	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8	190.3	190.8
177.5°	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0	190.4	190.8
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P933971

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1370.0	1362.3	1362.3	1349.6	1344.5	1340.6	1334.2	1315.1	1310.0	1304.8	1312.5
5°	1381.5	1367.5	1357.2	1334.2	1315.1	1307.4	1283.1	1237.1	1206.4	1183.4	1170.6
7.5°	1384.1	1366.2	1347.0	1311.2	1265.2	1244.8	1170.6	1086.3	1063.3	1042.8	1030.1
10°	1381.5	1361.1	1334.2	1280.6	1171.9	1136.1	1062.0	1007.1	993.0	989.2	993.0
12.5°	1372.6	1353.4	1316.3	1226.9	1074.8	1050.5	1007.1	975.1	972.6	978.9	1013.5
15°	1357.2	1339.3	1295.9	1155.3	1021.1	1003.2	972.6	961.1	975.1	1019.8	1123.4
17.5°	1341.9	1321.5	1267.8	1085.0	980.2	967.4	945.7	968.7	1048.0	1108.0	1142.5
20°	1321.5	1297.2	1235.8	1033.9	950.8	939.3	929.1	1032.6	1092.7	1114.4	1133.6
22.5°	1297.2	1271.6	1192.4	998.1	920.2	911.2	917.6	1068.4	1092.7	1108.0	1124.6
25°	1265.2	1243.5	1141.3	970.0	895.9	885.7	909.9	1064.6	1078.6	1082.5	1115.7
27.5°	1235.8	1207.7	1087.6	944.4	866.5	862.6	916.3	1048.0	1058.2	1062.0	1097.8
30°	1200.0	1157.9	1027.5	917.6	835.8	834.5	917.6	1027.5	1025.0	1035.2	1071.0
32.5°	1163.0	1083.7	959.8	884.4	806.4	805.1	908.7	996.8	994.3	1008.3	1035.2
35°	1128.5	1026.2	867.8	846.0	769.4	770.6	886.9	961.1	962.3	975.1	991.7
37.5°	1092.7	976.4	766.8	803.9	733.6	733.6	857.5	927.8	925.3	929.1	952.1
40°	1050.5	898.4	677.3	748.9	700.3	696.5	821.8	892.0	883.1	881.8	913.8
42.5°	1005.8	812.8	610.9	676.1	662.0	656.9	778.3	848.6	832.0	835.8	876.7
45°	957.2	789.8	559.8	571.3	622.4	618.6	731.0	798.8	787.2	797.5	839.6
47.5°	908.7	743.8	543.2	474.1	580.2	578.9	678.6	750.2	743.8	754.0	798.8
50°	842.2	692.7	541.9	406.4	532.9	538.0	616.0	702.9	702.9	711.8	759.1
52.5°	756.6	630.1	492.0	368.1	478.0	493.3	561.0	662.0	664.6	673.5	715.7
55°	678.6	564.9	456.2	338.7	412.8	446.0	507.4	619.8	624.9	633.9	672.2
57.5°	607.0	470.3	448.6	304.2	352.7	384.7	460.1	578.9	581.5	589.2	626.2
60°	530.4	339.9	411.5	267.1	300.3	324.6	416.6	530.4	539.3	544.4	576.4
62.5°	443.5	246.7	373.2	241.5	274.8	279.9	380.8	484.4	495.9	499.7	518.9
65°	315.7	207.0	316.9	219.8	247.9	249.2	342.5	437.1	447.3	453.7	467.7
67.5°	213.4	168.7	241.5	199.4	227.5	228.8	305.4	382.1	396.2	401.3	410.2
70°	148.2	112.5	178.9	177.6	204.5	207.0	265.8	332.3	345.1	348.9	354.0
72.5°	108.6	90.7	148.2	159.8	180.2	182.8	224.9	276.0	288.8	292.7	295.2
75°	83.1	95.8	120.1	139.3	153.4	154.6	184.0	224.9	233.9	236.4	237.7
77.5°	66.5	89.5	88.2	112.5	125.2	122.7	144.4	173.8	181.5	181.5	181.5
80°	49.8	70.3	66.5	80.5	92.0	89.5	103.5	124.0	126.5	129.1	127.8
82.5°	37.1	44.7	44.7	51.1	61.3	58.8	69.0	80.5	80.5	80.5	83.1
85°	23.0	25.6	20.4	26.8	34.5	33.2	38.3	43.5	44.7	44.7	42.2
87.5°	14.1	11.5	6.4	10.2	15.3	15.3	17.9	19.2	17.9	17.9	17.9
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4
95°	44.1	28.2	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4
97.5°	49.3	35.3	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0
100°	53.7	40.9	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4
102.5°	57.9	46.0	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6
105°	64.2	54.1	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5
107.5°	73.0	63.6	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1
110°	78.1	69.7	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7



TEST NUMBER: P933971

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.1	76.1	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4
115°	93.1	85.7	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0
117.5°	101.8	95.1	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4
120°	106.9	100.6	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4
122.5°	112.8	106.4	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6
125°	120.6	114.7	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5
127.5°	127.8	121.8	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0
130°	132.5	126.2	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3
132.5°	136.5	130.2	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2
135°	141.3	135.5	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6
137.5°	147.1	141.4	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4
140°	151.2	145.9	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5
142.5°	154.3	149.4	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9
145°	158.9	154.6	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5
147.5°	164.6	160.4	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7
150°	167.7	163.8	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4
152.5°	169.8	166.9	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7
155°	174.2	172.1	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6
157.5°	178.4	176.4	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8
160°	180.5	178.9	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5
162.5°	182.6	181.4	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2
165°	185.6	184.5	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2
167.5°	187.4	186.8	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8
170°	189.3	188.8	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8
172.5°	189.6	189.4	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1
175°	190.8	190.8	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2
177.5°	190.8	190.8	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P933971

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1303.6	1299.7	1304.8	1290.8	1304.8	1299.7	1303.6	1312.5	1304.8	1310.0	1315.1
5°	1143.8	1137.4	1117.0	1100.4	1117.0	1137.4	1143.8	1170.6	1183.4	1206.4	1237.1
7.5°	1022.4	1017.3	1012.2	1002.0	1012.2	1017.3	1022.4	1030.1	1042.8	1063.3	1086.3
10°	995.6	996.8	1004.5	1003.2	1004.5	996.8	995.6	993.0	989.2	993.0	1007.1
12.5°	1064.6	1076.1	1118.2	1115.7	1118.2	1076.1	1064.6	1013.5	978.9	972.6	975.1
15°	1143.8	1147.6	1156.6	1157.9	1156.6	1147.6	1143.8	1123.4	1019.8	975.1	961.1
17.5°	1151.5	1152.8	1159.1	1159.1	1159.1	1152.8	1151.5	1142.5	1108.0	1048.0	968.7
20°	1145.1	1147.6	1160.4	1163.0	1160.4	1147.6	1145.1	1133.6	1114.4	1092.7	1032.6
22.5°	1142.5	1147.6	1157.9	1156.6	1157.9	1147.6	1142.5	1124.6	1108.0	1092.7	1068.4
25°	1129.8	1129.8	1131.0	1132.3	1131.0	1129.8	1129.8	1115.7	1082.5	1078.6	1064.6
27.5°	1102.9	1105.5	1113.1	1111.9	1113.1	1105.5	1102.9	1097.8	1062.0	1058.2	1048.0
30°	1078.6	1076.1	1069.7	1064.6	1069.7	1076.1	1078.6	1071.0	1035.2	1025.0	1027.5
32.5°	1037.7	1031.3	1025.0	1021.1	1025.0	1031.3	1037.7	1035.2	1008.3	994.3	996.8
35°	989.2	990.4	989.2	985.3	989.2	990.4	989.2	991.7	975.1	962.3	961.1
37.5°	954.7	957.2	955.9	950.8	955.9	957.2	954.7	952.1	929.1	925.3	927.8
40°	918.9	920.2	918.9	915.0	918.9	920.2	918.9	913.8	881.8	883.1	892.0
42.5°	884.4	883.1	879.3	876.7	879.3	883.1	884.4	876.7	835.8	832.0	848.6
45°	844.8	846.0	838.4	834.5	838.4	846.0	844.8	839.6	797.5	787.2	798.8
47.5°	805.1	805.1	798.8	794.9	798.8	805.1	805.1	798.8	754.0	743.8	750.2
50°	763.0	761.7	752.7	751.5	752.7	761.7	763.0	759.1	711.8	702.9	702.9
52.5°	714.4	714.4	715.7	718.2	715.7	714.4	714.4	715.7	673.5	664.6	662.0
55°	672.2	673.5	682.5	685.0	682.5	673.5	672.2	672.2	633.9	624.9	619.8
57.5°	628.8	628.8	635.2	635.2	635.2	628.8	628.8	626.2	589.2	581.5	578.9
60°	578.9	581.5	586.6	585.3	586.6	581.5	578.9	576.4	544.4	539.3	530.4
62.5°	526.5	529.1	530.4	527.8	530.4	529.1	526.5	518.9	499.7	495.9	484.4
65°	471.6	474.1	475.4	472.9	475.4	474.1	471.6	467.7	453.7	447.3	437.1
67.5°	415.4	414.1	412.8	417.9	412.8	414.1	415.4	410.2	401.3	396.2	382.1
70°	357.8	357.8	356.6	359.1	356.6	357.8	357.8	354.0	348.9	345.1	332.3
72.5°	296.5	295.2	300.3	296.5	300.3	295.2	296.5	295.2	292.7	288.8	276.0
75°	236.4	239.0	236.4	240.3	236.4	239.0	236.4	237.7	236.4	233.9	224.9
77.5°	180.2	182.8	180.2	180.2	180.2	182.8	180.2	181.5	181.5	181.5	173.8
80°	127.8	126.5	126.5	125.2	126.5	126.5	127.8	127.8	129.1	126.5	124.0
82.5°	81.8	80.5	80.5	83.1	80.5	80.5	81.8	83.1	80.5	80.5	80.5
85°	44.7	46.0	43.5	43.5	43.5	46.0	44.7	42.2	44.7	44.7	43.5
87.5°	16.6	15.3	15.3	15.3	15.3	15.3	16.6	17.9	17.9	17.9	19.2
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3
92.5°	24.3	23.3	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1
95°	82.6	79.7	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2
97.5°	190.6	185.1	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1
100°	267.6	261.0	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0
102.5°	333.5	327.8	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2
105°	410.2	407.2	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9
107.5°	450.2	451.0	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0
110°	460.4	463.6	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	453.9	458.7	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3
115°	431.7	438.5	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4
117.5°	401.1	408.6	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9
120°	380.6	387.9	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1
122.5°	360.0	367.2	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0
125°	332.7	339.4	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3
127.5°	310.8	316.4	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8
130°	296.9	302.1	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0
132.5°	285.2	289.8	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3
135°	268.6	272.6	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1
137.5°	256.3	259.5	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2
140°	246.4	249.5	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4
142.5°	239.5	242.1	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0
145°	229.1	231.1	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0
147.5°	220.4	222.0	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3
150°	215.4	216.7	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9
152.5°	211.5	212.5	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4
155°	206.7	207.4	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3
157.5°	202.6	203.1	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2
160°	200.6	200.8	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7
162.5°	198.7	198.9	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1
165°	195.7	196.0	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8
167.5°	194.4	194.5	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1
170°	194.4	194.4	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6
172.5°	193.4	193.3	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8
177.5°	191.8	191.7	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1334.2	1340.6	1344.5	1349.6	1362.3
5°	1283.1	1307.4	1315.1	1334.2	1357.2
7.5°	1170.6	1244.8	1265.2	1311.2	1347.0
10°	1062.0	1136.1	1171.9	1280.6	1334.2
12.5°	1007.1	1050.5	1074.8	1226.9	1316.3
15°	972.6	1003.2	1021.1	1155.3	1295.9
17.5°	945.7	967.4	980.2	1085.0	1267.8
20°	929.1	939.3	950.8	1033.9	1235.8
22.5°	917.6	911.2	920.2	998.1	1192.4
25°	909.9	885.7	895.9	970.0	1141.3
27.5°	916.3	862.6	866.5	944.4	1087.6
30°	917.6	834.5	835.8	917.6	1027.5
32.5°	908.7	805.1	806.4	884.4	959.8
35°	886.9	770.6	769.4	846.0	867.8
37.5°	857.5	733.6	733.6	803.9	766.8
40°	821.8	696.5	700.3	748.9	677.3
42.5°	778.3	656.9	662.0	676.1	610.9
45°	731.0	618.6	622.4	571.3	559.8
47.5°	678.6	578.9	580.2	474.1	543.2
50°	616.0	538.0	532.9	406.4	541.9
52.5°	561.0	493.3	478.0	368.1	492.0
55°	507.4	446.0	412.8	338.7	456.2
57.5°	460.1	384.7	352.7	304.2	448.6
60°	416.6	324.6	300.3	267.1	411.5
62.5°	380.8	279.9	274.8	241.5	373.2
65°	342.5	249.2	247.9	219.8	316.9
67.5°	305.4	228.8	227.5	199.4	241.5
70°	265.8	207.0	204.5	177.6	178.9
72.5°	224.9	182.8	180.2	159.8	148.2
75°	184.0	154.6	153.4	139.3	120.1
77.5°	144.4	122.7	125.2	112.5	88.2
80°	103.5	89.5	92.0	80.5	66.5
82.5°	69.0	58.8	61.3	51.1	44.7
85°	38.3	33.2	34.5	26.8	20.4
87.5°	17.9	15.3	15.3	10.2	6.4
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.7	22.5	13.8	5.1
95°	85.5	48.1	44.1	28.2	12.3
97.5°	115.1	52.8	49.3	35.3	21.2
100°	125.9	56.8	53.7	40.9	28.2
102.5°	130.9	60.8	57.9	46.0	34.1
105°	134.5	66.7	64.2	54.1	44.0
107.5°	135.2	75.4	73.0	63.6	54.3
110°	134.2	80.3	78.1	69.7	61.2



TEST NUMBER: P933971

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.2	86.1	84.1	76.1	68.0
115°	135.5	95.0	93.1	85.7	78.2
117.5°	137.9	103.5	101.8	95.1	88.4
120°	140.1	108.5	106.9	100.6	94.2
122.5°	143.0	114.4	112.8	106.4	99.9
125°	147.0	122.0	120.6	114.7	108.8
127.5°	150.9	129.2	127.8	121.8	116.0
130°	153.8	134.1	132.5	126.2	119.8
132.5°	156.2	138.1	136.5	130.2	123.8
135°	158.7	142.7	141.3	135.5	129.7
137.5°	162.6	148.6	147.1	141.4	135.7
140°	164.9	152.6	151.2	145.9	140.7
142.5°	166.8	155.5	154.3	149.4	144.5
145°	169.5	160.0	158.9	154.6	150.4
147.5°	173.2	165.6	164.6	160.4	156.3
150°	175.2	168.6	167.7	163.8	160.1
152.5°	176.4	170.5	169.8	166.9	164.1
155°	179.3	174.7	174.2	172.1	170.0
157.5°	182.1	178.9	178.4	176.4	174.3
160°	183.4	180.9	180.5	178.9	177.3
162.5°	184.7	182.9	182.6	181.4	180.2
165°	186.7	185.8	185.6	184.5	183.4
167.5°	188.2	187.5	187.4	186.8	186.3
170°	189.5	189.4	189.3	188.8	188.3
172.5°	189.6	189.6	189.6	189.4	189.3
175°	190.3	190.8	190.8	190.8	190.8
177.5°	190.4	190.8	190.8	190.8	190.8
180°	190.8	190.8	190.8	190.8	190.8



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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	14.14	15.27	14.86	16.01	16.89	16.97	18.09	17.69	18.84	19.72
	3H	14.64	15.65	15.37	16.40	17.32	18.33	19.34	19.07	20.09	21.01
	4H	14.84	15.80	15.60	16.56	17.49	18.79	19.74	19.54	20.50	21.43
	6H	14.98	15.86	15.74	16.63	17.57	19.08	19.96	19.85	20.73	21.68
	8H	14.99	15.82	15.76	16.61	17.56	19.17	20.00	19.94	20.79	21.74
	12H	14.97	15.77	15.75	16.55	17.52	19.21	20.01	19.99	20.80	21.77
4H	2H	15.21	16.16	15.96	16.92	17.85	17.41	18.36	18.17	19.12	20.05
	3H	16.26	17.05	17.03	17.85	18.79	18.94	19.73	19.71	20.53	21.47
	4H	16.55	17.27	17.33	18.06	19.04	19.48	20.20	20.26	21.00	21.97
	6H	16.69	17.31	17.49	18.13	19.11	19.85	20.48	20.66	21.30	22.28
	8H	16.70	17.28	17.50	18.10	19.09	19.97	20.55	20.77	21.37	22.36
	12H	16.68	17.20	17.50	18.04	19.04	20.03	20.56	20.86	21.40	22.40
8H	4H	17.02	17.60	17.83	18.42	19.41	19.62	20.21	20.43	21.02	22.02
	6H	17.29	17.78	18.13	18.64	19.63	20.07	20.55	20.90	21.41	22.40
	8H	17.34	17.77	18.18	18.62	19.63	20.22	20.65	21.07	21.51	22.52
	12H	17.33	17.71	18.18	18.56	19.62	20.33	20.71	21.18	21.56	22.62
12H	4H	17.04	17.56	17.86	18.40	19.40	19.60	20.12	20.42	20.96	21.96
	6H	17.35	17.79	18.20	18.64	19.65	20.07	20.50	20.91	21.35	22.36
	8H	17.43	17.81	18.28	18.66	19.73	20.24	20.62	21.09	21.47	22.53